

<110>	Young et al.
<120>	207 Human Secreted Proteins
<130>	PZ007P1
<140>	Unassigned
<141>	1998-12-04
<150>	PCT/US98/11422
<151>	1998-06-04
<150>	60/048,885
<151>	1997-06-06
<150>	60/049,375
<151>	1997-06-06
<150>	60/048,881
<151>	1997-06-06
<150>	60/048,880
<151>	1997-06-06
<150>	60/048,896
<151>	1997-06-06
<150>	60/049,020
<151>	1997-06-06
<150>	60/048,876
<151>	1997-06-06
<150>	60/048,895
<151>	1997-06-06
<150>	60/048,884
<151>	1997-06-06
<150>	60/048,894
<151>	1997-06-06
<150>	60/048,971
<151>	1997-06-06
<150>	60/048,964
<151>	1997-06-06
<150>	60/048,882
<151>	1997-06-06

1004880.12001

<150>	60/048,899
<151>	1997-06-06
<150>	60/048,893
<151>	1997-06-06
<150>	60/048,900
<151>	1997-06-06
<150>	60/048,901
<151>	1997-06-06
<150>	60/048,892
<151>	1997-06-06
<150>	60/048,915
<151>	1997-06-06
<150>	60/049,019
<151>	1997-06-06
<150>	60/048,970
<151>	1997-06-06
<150>	60/048,972
<151>	1997-06-06
<150>	60/048,916
<151>	1997-06-06
<150>	60/049,373
<151>	1997-06-06
<150>	60/048,875
<151>	1997-06-06
<150>	60/049,374
<151>	1997-06-06
<150>	60/048,917
<151>	1997-06-06
<150>	60/048,949
<151>	1997-06-06
<150>	60/048,974
<151>	1997-06-06
<150>	60/048,883
<151>	1997-06-06
<150>	60/048,897
<151>	1997-06-06

10/02/00 09:00:00

<150> 60/048,898
<151> 1997-06-06

<150> 60/048,962
<151> 1997-06-06

<150> 60/048,963
<151> 1997-06-06

<150> 60/048,877
<151> 1997-06-06
<150> 60/048,878
<151> 1997-06-06

<150> 60/070,923
<151> 1997-12-18

<150> 60/092,921
<151> 1998-07-15

<150> 60/094,657
<151> 1998-07-30

<160> 1227

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

<400> 1

gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg	60
aattcgaggg tgcaccgtca gtcttcctct tcccccaaa acccaaggac accctcatga	120
tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg	180

```

tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg 360
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acagggtgtac accctgcccc 420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
atccaagcga catcgccgtg gagggggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctacccgtgg 600
acaagagcag gtggcagcag gggaaagtct tctcatgctc cgtgatgcat gaggctctgc 660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
gactctagag gat 733

```

<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp Ser Xaa Trp Ser

1 5

<210> 3

<211> 86

<212> DNA

<213> Homo sapiens

<400> 3

```

gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaaatat ctgccatctc aattag 86

```

<210> 4

<211> 27

<212> DNA

<213> Homo sapiens

<400> 4

```

gcggcaagct ttttgcaaag cctaggc 27

```

<210> 5

<211> 271

<212> DNA

<213> Homo sapiens

<400> 5

```

ctcgagattt ccccgaaatc tagattttccc cgaaatgatt tccccgaaat gatttccccg 60
aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
gccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
ttttggaggc ctaggctttt gcaaaaaagct t 271

```

10004560-120701

<210> 6
 <211> 32
 <212> DNA
 <213> Homo sapiens

<400> 6
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
 <211> 31
 <212> DNA
 <213> Homo sapiens

<400> 7
 gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggggactttc cc 12

<210> 9
 <211> 73
 <212> DNA
 <213> Homo sapiens

<400> 9
 gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
 ccattctcaat tag 73

<210> 10
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 10
 ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60
 caattagtca gcaaccatag tcccggccct aactccgccc atcccgcccc taactccgcc 120
 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
 ggccgcctcg gctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
 cttttgcaaa aagctt 256

<210> 11
 <211> 2526
 <212> DNA
 <213> Homo sapiens

<400> 11
 gacaggctat ccgagaatct gagagctggg cccggcaatt cctccagyta cccttgtagc 60
 ctaagtccag tcacacattt cccaaagttt ctctttgtca taaccctggt ctggtctggt 120

10004560.150701

ttgrgggrctt gagaatgggt cagggactcc agggccaagtc caacagagac cccaaaccca 180
 ccacacacca gcagccacaa cctcaccacc aacaaagagg acttttgtgg ggccacaagt 240
 aagaggtcat ttctggaatg gactcagacc tttaaacagg agagttgagc acttccagks 300
 agtttttaag caaggcatgg ggaacaggga atagaacctt tcaaagaggt tgcccagaga 360
 aaagctgggc ctcttgcatc cggcttcctt ggagcagcct cttctggcag aaagccatca 420
 ggtgctcaat catcttctcc tggccaaggc tctgaccatg cttagtactg gaatagaggt 480
 ggccaggccc ccagcgactc ttcttggcct gatgtttgtc ctacaggca tgccacgtgg 540
 cctgagatga ttcagaacaa atcatgctaa ctttgaatcc atccagccac ttgcaaata 600
 taatcagaag tcagcttggt cactgttaga aagaaactaa caaaagagaa cccagagcaa 660
 tctagaatct ttgagtgtt ggctttccaa ggatactgcg gagactctgg ccaagctgat 720
 gamcttctga artgtcactg gcaccatatg caacaagaac caccattcac tgagtagcta 780
 atgggttttg ggctgggac attccatctg aggtccttcc tgaacatgtc actccacagc 840
 agaggaccgg ttgcagctta ccagaacca ctctccagg agagctggat gttttgctg 900
 caacaccttg agcactgact gctattgttc aaaaaaagcc tttgctgcat tcggaggact 960
 gccccgtgcc ctgaggtgac ttctaaacta tgtgttttca ttagcgaatt tattttttgt 1020
 gctgggttga catttgatt ttgttaggtt gctgtttaag ctcaagtttg ctgtgctctc 1080
 tgcagctaca aaacatcttg gcatatttaa gaktggcttt tataaatagc tttattctga 1140
 tattaatcag attcccaact ttactgagaa ttaaggactg gggtagcttta aagaaatgca 1200
 aatagcaatt gaagaaccac tgctgcaggt ggtagccctg gctagactga attacactag 1260
 aaatcagcca gaaggaagcg tccttgggat ccagatcac tctttttttt ttttttttta 1320
 aaaggggcag ccccttgatg gctcatctct ctgaataaca gttacgtctt catatcgata 1380
 ccagatgcct tcttcatcat gccactgaag ccactcacca ccttcaagaa catgccaacc 1440
 tctgtcagat tcacttacc acaacaagg aggcacgttt ggcacaaagt gttgtcctcc 1500
 aggtccaagt ggactctaca gagtgttga cctcaacaca ctggattcca ggtggactgg 1560
 accaagagca ggcaaagaca cgggaactga aaaactccac agggtttggg gaatagaaat 1620
 gaaaagccac gtcatataac tcaagaataa atgggtgttt ggaaatttta aaattatcat 1680
 cgaaggtggt gaaactattt caggcccaaa tgaaaggaaa tcgccagttg gggatgaaat 1740
 cacagagcct gtgttttatg atatggttgg atgtccactg atgaaatttt aaaggagttt 1800
 catttttaaa agtgcgcatg attctacata tgagaattct ttaggccaag aaactgtcct 1860
 tggctcagag gtgttgggaa ttaaagcaga gagaagccat tcgtgatgct tagaaccaag 1920
 gatggtcatg tacacaaaga ccacagagac ggccattctt gtttacaaaa cacttaccaa 1980
 gaaagcactt tgtaggggaa ctttagtaag ttcttctcat ttcattatgt ttcttccaag 2040
 gaaacaggag agactgaatt aataattctc tctttcctct taagcacttt taaaataata 2100
 aagtacatct tgaaatttg gggggcatct ctgatttaaa aaaagaaaaa ggctgcttga 2160
 tgtatgttat gcagagacac ttgcctctg gtggctgcag agcaataccc aagcctcatt 2220
 tggaaggctc aacatttggg attgcacttt aattgattaa tcctcaattc atgtggcctt 2280
 acgggatggg gggctctggg ccccaattca ttcttatctg ccaaagaatt atctagaagc 2340
 acatcaaata ccagcacccc acctgcacaa tgggggttga aaacttttgt atccctaagc 2400
 atattatttt atagtgtctg ccattgccatg tggaaatact ttatttttaa cctcaggatt 2460
 taaataaagt aaacactatg acatttaaaa aaaaaaaaaa aaaactcgag gggggcccg 2520
 taccca 2526

<210> 12

<211> 1131

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (839)

<223> n equals a,t,g, or c

<400> 12

cactgcacca gctttgttat ctgtaaaatg atgataatac caacaccttc ttcttgggggt 60
 actgaagatg agagaacatg atatgtgtaa agtgcccttc acaataccca gaacatagca 120
 aacatgtaat gaatgtagta atagtaatta ttttattttc ttttgattca gttgggacta 180
 tgttcagctg taacagaata cccaaaataa ctgtttttaa caaattaaag tttwgttgtg 240

```

aagttttgtt acgaattcag acaatccagg gcttttatag atgcaccagg atcagcaggt 300
acaaaggcat ctttcctgat ttctgccagt ctcaatgcat ggggttgcaat ccagartcca 360
rgatggcagt tccagccctg gttacgcca tattagcaca cagaaagaaa gagaaaggga 420
tgtgcctctt cactttaatc atagtcacca ctagatgcac ccactacttc tgctgatact 480
ccattagcta atgcttgctt acatggtcac acctagtttc cagagagaca tgtctggaca 540
gtcatgtgct caattaatat ccaagtgtcc aattactgag aaaaaaagaa actagcacct 600
ttgcttggtt gcattcctct tagcataagc cacattcttt ttatgaagtt gtcctcagtt 660
acttgatgac ctcagttgtc ctttcawtta gaaawgcycc tkggacaycc tgaawctgac 720
ttcttttgtc atcagcacca tctactaccac tgccytcttc aaagccacca cgttctgtcc 780
ccaggatggt tgcaacaacc accataggga ctttttgctt tctacttcca cacaatagnc 840
cagagtaagc ttttgaaaat gtaggtcaga tcatgtctct ctcttcctct tcaaaacccct 900
cccgatggct tttcatatta ctcaaaaagaa aacctaaaac tttgctgtga gatctatgtg 960
acccggctta ttcttctctt tactttatct ctgtattgct ctctctcact ctactccagc 1020
catccacct ccttgctgct tgtcctatac tcctaaaaga agttcagctt tcccttatga 1080
tatttgcact taaaatagaa aaaaaaaaaa aaaaaaaact cgaggggggc c 1131

```

```

<210> 13
<211> 941
<212> DNA
<213> Homo sapiens

```

```

<400> 13
ggcacgagta gcatttcatt taatctgcag gtatattctc ccaacagttt attgtcatgt 60
gatgtcctca gccaaagattg traggcagag aggagctgtc ccaacctact ataccaccga 120
ggctggagag atcatatttt tggattataa ctggagctct tccatccttc acattgttga 180
tgtcctctgt agcaaaccgg aaaagtcagt gacagaagat gccgctagcg gtttgagcca 240
gagaatgaca gctctggttt ggagaaaagg gccggatggt ggctctagaa agcccatcct 300
tctgctcttc tttttctctc cccttatatt gtgctttcat tcattcattc attcatcaaa 360
catttggtga gcacctatta tgtgtcaagc tctgtgctag cctctggaaa acctgccctc 420
atgtagctca ctgtggagta ggagaaacaa tgactacact atgataagca cgggttgtca 480
gggtctcaca gagcagtggc ccctcatoca gaccgatgag gtcaaagaag gcatccaggc 540
gaggatggtg tcagagctaa ctgaagaatg agagggagct gcaccascag gggttggaac 600
tgaaggtggc agtgccctgga gtcttgattc cagcagaggg agagcagctt gtgaaaaggc 660
accaagggtg ggagagggca gagcacatgg aggaacttca ggtagtctct gatggcctg 720
gggcaaagct agagaggtaa gaagaatcta caaatgttcc tcgagttaca tgaacttcca 780
tcccaataaa cccattggaa acgaaaaatt taagtcagaa gtgcatttaa ggctggtccg 840
agtagaatga tttttacaac gaattgatca caaccagtta cagatgtctt tgttcttctt 900
ccactccac tgcttcacct gactagcctt taaaaaaaaa a 941

```

```

<210> 14
<211> 843
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (2)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (19)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE

```

10004860-120701

<222> (87)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (525)
<223> n equals a,t,g, or c

<400> 14

cnagggataa	ccccaaagnt	gggaaataaa	ccctcaatta	aaggggggaac	caaaaagctg	60
ggaagtccccc	ccccgcggtg	gcgggcngnt	ctaggaacta	gtggaatccc	ccgggggctgc	120
aggggaattcg	gcacggagtg	ggaatggtgt	ttgtatgata	ctattttccac	aawatgcatt	180
gagacttggt	ktgtggccta	ggacatggtc	aattcttityt	aaatattccg	tgaatttctt	240
tagtgcatat	tctccgatgg	gggctgtggg	gacagagttc	taaatatgcc	cattagatta	300
aatctcttca	ttctgttgct	cacatcttct	atatecttat	taatctgtca	atctcttcaa	360
gagagggtgt	attaaaaatct	ctcactgtat	gtgtcacttt	gcccttaaaa	ttctgatgat	420
ttgctttata	aatggttata	accattttcc	aggaagaaca	ttaaagaact	ttccattggc	480
attatccagt	ttccctcaaa	atactgggtt	tttttatitt	ggctnctaag	cagctatgaa	540
tccagtttct	cagaagccct	tgtctcaagg	catttgtttc	cagattacct	tgtagcatc	600
cacactatgg	gctatttttag	aaaaacaaaa	aaagtatcaa	aatcatatag	ctatgatttt	660
cctgtgcttg	aaggagcctt	aaagctcatc	tagtccagcc	agtatttggt	catccaaatt	720
ctgccaaaga	atctctattg	tcaagatatt	ctttaccatc	tttgggacat	tctcattatt	780
agaaacaaat	cctaagaaga	aattctgcca	takacaacc	atccgttctt	taaaaaaaaa	840
aaa						843

<210> 15
<211> 1018
<212> DNA
<213> Homo sapiens

<400> 15

ctgtaatttt	taattttcat	ataccgtgct	ttgattctaa	ttttattttt	tgagttctct	60
gaagggttaca	tatacagagt	gcttcaggaa	tgatcatttt	gttattattc	atgcttctta	120
acaatgttgt	tttagtccaa	gaagataatt	gccagagaaa	gaatacagtg	caggaaagaa	180
gargctggag	ccagtgggtga	agarggattg	agargacaga	cattgtggga	atgaaatcat	240
gaataatcgt	gtttttgaa	tgtccaaaaa	cttctacaaa	ccatgaaatg	ttggagttaa	300
aatctaattg	ttgaaaaatt	ccccacattc	cttgtatccc	ttagggttgag	cataattcca	360
catccgtgga	ctgatgcact	tcccaagagg	gggcctcatt	aactcttccg	aggcagcagc	420
agcaagggca	ccccctcctt	tccccccaca	cccayttct	catggctctt	ctttctctca	480
tctcatgctt	aggttagaaa	agggcacaag	gtaaggaaag	ccttggggaat	aggctgaatc	540
tggtatctta	atttggtgcc	aaatacttaa	tgtgcttgaa	tttaaaaaa	gcaaacatgt	600
agaaaggtaa	ttataattat	gaggccagtt	ctttaagcta	gctttttttc	ccctctcaaa	660
cagcatattg	gcttggtatg	cagcaggaga	aagtgttttt	tgcaatacac	ataatgcata	720
tatggtcctg	ttagcaatct	atagaaaata	gatattgctc	attaaggtaa	atatttttgt	780
tgatgaatga	tctggaatgg	tctggacttg	ttgtgtgaac	aggaaattgc	tctgtaggct	840
ttgacttggt	aggttaaagag	tgaggctggt	aagattaatt	aaagtaaata	ctgtgacaat	900
aggatgtcaa	aacccaaaaac	gtgtttctga	aactcaagga	attaatgaca	catagggaag	960
tttttgccat	attaagcata	gagtaggaga	ggcaagtcaa	gaataaaaaa	aaaaaaaaa	1018

<210> 16
<211> 661

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (478)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (661)
<223> n equals a,t,g, or c

<400> 16
 tttaagaaat tagtgaatcc ccggnatgcag ggaattcggc acgaggagga ggccgtcagc 60
 tggcaggagc gcaggatggc agctgytccc ccgggttgca cccccccagy tctgctggac 120
 ataagyttgt taacagagag cctgggagct gggcagcctg tacctgtgga gtgccggcac 180
 cgcttgagg tggctgggccc aaggaagggg cctctgagcc cagcatggat gcctgcctat 240
 gcctgccagc gccctacgcc cctcacacac cacaacactg gcctmtccga gctgctggag 300
 catggagtgt gtgaggaggt ggagagagtt cggcgctcag agaggtacca gaccatgaag 360
 gtgcgcaggc cagggtctcg acctacccca ggaatgtcct gccctgggaa tgacaacaca 420
 gtccacacca tgcacgggga ggcaaacagg ggcagctgac ccagcccagg ggtcaganga 480
 ggtcttgccg aggaagtggc agctaagctg atacctgata tgcacwagkc agccargygg 540
 agacaggcaa ggaagaagct tgttttgagg acagaatttt ctagatcact cagcaccatc 600
 tggccttttg ggctttttgt tttattttgt ttttgagacg gggtctcgct ctgtcgccca 660
 n 661

<210> 17
<211> 553
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (507)
<223> n equals a,t,g, or c

<400> 17
 ggcacagggc tatttgcccc tctctccaca tgacagaact gctctaagtt tctttgctgc 60
 tcttctcagc tgtcagacgg cttgctgctt gttttccaca ccaccatgtc tattctttgc 120
 tgtccttwac tctgctgtt tttttccttt tgtatttctt ctggctcttg tcccttttcc 180
 cacgtgtcwc agctttcctt tattgccact ttcagtcaga gcagtcctgt gcttctgggtg 240
 ccggcataca atacttactt gagtttcttg gcttttcttg actgtgcata tcttacttca 300
 acataggaat agcctgtcat agaatttctc cagttccagg gctcaagagg gagagtgcc 360
 gaaaattgag actgttttcc ctgtcttgga ttgaattcat aaagcaaac cagtgtttgt 420
 gtgagggttt gctgtgtcat gcctataggt tgtttgggtg caaacctata gaatccagcc 480
 tgcgaaaaga aagraaccag agaatanca catcagaaca atgcttgaca tcatttctca 540
 atcaagcagt cca 553

<210> 18
<211> 869

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (635)
<223> n equals a,t,g, or c

<400> 18
ggcacgagct gccaacactg aggtcttcgt ggcttctcac atctagatgt atccctctca 60
aatctatcct ctatccaggc accagattga ggtatctaaa atgtcaactt tccagttact 120
ccttcttata ctagcccaat caacttacaa gataaagtcc aagccccttc atatgacaaa 180
ccacaccctg cttaactctc caggtttgaa tccttcatct cctactttaa acttttaaac 240
ccagcagcac gaaagtgtct cctatgcatg ttgccatag cgttctctcc atcatgcatt 300
tgcctgagca agatgtcttg agttaacatc ttattcttta agactcattg tggtggtaga 360
cagcctttaa taacggatcc ttggccaggc acagtgaact acacctgtaa tcccagaact 420
ttgaaaggcc aaagaaggaa gaaagcttga ggccagtagt ttgagaccag cctgggaaac 480
agagagatat cccatctgta ccaaaaaattt aaaaaaatat tagcagggag tagtggcatg 540
cacaagtggc cccagctcca tgggagastg aggtaggaac atcacttgag cccaggaagt 600
caaggctgca gtgaaccatg atcagaacat tgcantccag cttgggtaac agagtgaac 660
cttaggtcag aaaaatgaat aaataagcat aaaattttta aaacttagcc aggcattggtg 720
gcacacatct gtgtccctg ctacttagga ggctgaggtg agaggatcct tgagcccagg 780
aggtcaacac tacagtgagc tatgattgtg ccactaaact ccaacctggg tgaaaaagca 840
aaaccctgcc aaaaaaaaaa aaaaaaact 869

<210> 19
<211> 959
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (930)
<223> n equals a,t,g, or c

<400> 19
ggcgagccga gatcgtgcc a ttgcactcca gcctgggcaa caagagtga actctgtctc 60
aaaaaaaaaa aattataata ctatatgcca taaaatgaca tttcatattt aaagagtttt 120
ttaaactctt tgtattcaca tgccataatt tgaaacccta tttcactgaa tgagaatggt 180
atctgttgct ctcatTTTTT catttttatc cttacaatt tccaccacag ccagtgcata 240
taatggcaat gacacccagg gatggaatga taagttccat crcmgctcag tcaagacgca 300
gacttgatgt ggccccaaca acagtcaata atggagtctc caaaataaag ctctatagga 360
aaggtaaata cccgctgcac aagaaaccac agcatctagg ttctaaccoc atctctatga 420
agagcttgct gggagagttt tgacattwaa caatctgtct gatkgccaat ttttctctc 480
tataaaatga taatgttkga ytcaaagatc caaagtcaat tcatgggtcta aaacttaatg 540
atttttttag gttttgkgac atttcaactg acactgtagt aatttatatc ttattttccc 600
actaatttag aaaaatatyt aaatgatcct taattggcaa tgggtcctaa gaattttggt 660
ttaaatccct gttacccaaa agagcccttt tttgtatctc gcagtagtta caaggatctt 720
tctaaatctt aaaaaaaaaa aaaaaagaaa gaaagaaaaa aaaagaaaaa aagtcagccg 780
ggcgtggtgg ctcatgcctg taatcccagc actttgggac caagggtggac agatcacgag 840
gtcaggagat ggagaccatc ccggccaaca tggagaaacc ctgtctctac taaaaaaaaa 900
aaaaactcga gggggggccc gtacccaatn cgccggctag tggtcgtaaa acaatcaaa 959

<210> 20
<211> 1446
<212> DNA

<213> Homo sapiens

<400> 20

cggggaggg	ctgtgtggca	ccgccaggga	gcggggccac	ctgagtcact	ttattggggt	60
cagtcacac	tttcttgctc	cctgttttct	cttctgtggg	atgatctcag	atgcaggggc	120
tggttttggg	gttttctgct	ttgtgccaa	ggctggacac	tgctgggggg	ctggaaagcc	180
cctcccttcc	tgctcttctg	tggcctccat	ccctcatgg	tgctgccat	ccttcttgga	240
gagagggagg	tgaagctgg	tgtgagccca	gtgggttccc	gcccactcac	ccaggagctg	300
gctggggcag	gaccgggaga	gggagcactg	ctgcccctct	ggcccctgctc	cttccgcagt	360
taggggtgga	ccgagcctcg	ctttccccc	tggtctggag	ggaaggggaa	ggaggggggtc	420
ttcaggctgg	agccaggctg	ggggtgctgg	gtggagagat	gagatttagg	gggtgcctca	480
tggggtgggc	aggcctgggg	tgaaatraga	aaggcccaga	acgtgcaggt	ctgcggaggg	540
gaagtgtcct	gagtgaagga	ggggaccccc	atcctggggg	atgctgggag	tgagtgagtg	600
agatggctga	gtgaggggta	tggggagcct	gaggttttat	gggcctgtgt	atcccccttct	660
cccggcccca	gcctgcctcc	ctcctgcccc	cctggcccac	aggtctccct	ctggctccctg	720
tccctctggt	ggttggggat	ggagcggcag	caaggggtgt	aatggggctg	ggttctgtct	780
tctacaggcc	accccagagt	cctcagtggg	tgctggggga	gcccggacggg	gctcctgagg	840
ggtagcaggt	gggtggggccc	tccctgaggg	tctgggggtca	ggctttggct	ctgctgcctc	900
tcagtcacca	agtcacctcc	ctctgaaaaat	ccagtcctct	ctttggatgt	ccttgtgagt	960
cactctgggc	ctggctgtcg	tccctctctca	gcttcttgtt	cctggggacaa	gggtcaagcc	1020
aggatgggccc	caggcctggg	atccccacc	ccaggacccc	caggccccct	cccctgtctgc	1080
tttgccgggg	gcagggcaga	aatggactcc	ttttgggtcc	ccgaggtggg	gtccccctccc	1140
agccctgcat	cctccgtgcc	stagacctgc	tccccagagg	aggggccttg	accacacagga	1200
cgtgtgggtg	gcctgggcac	tcaggggaccc	ccagctgccc	cagccctggt	ctctgggcga	1260
tctcttccct	cttgtcccg	agatctgcgc	ctctagtgcc	ttttgagggg	ttcccatcat	1320
ccctccctga	tattgtattg	aaaatattat	gcacactggt	catgcttcta	ctaatacata	1380
aacgctttat	ttaaagccaa	aaaaaaaaaa	aaaaaactcg	aggggggggc	cgtacccaat	1440
tcgcca						1446

<210> 21

<211> 1471

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1470)

<223> n equals a,t,g, or c

<400> 21

caaaaaataa	taatgataat	ttaaaataaa	taagtaacta	ataaaaagat	tttatatccc	60
agtcttatga	tggtgggtgg	caaggctaga	taaaaagatg	ttagaatgaa	agaacatatt	120
tttagtgata	tgtaaatgaa	ggattctaca	atagtcatat	atttttatat	gaatgaatgt	180
tgggttgggc	tgagagggta	tgtgtgtgta	aatataaagg	tctcacattc	agagtatagc	240
tctgaaataa	tggaaactcat	gtctacaatt	caacatgcat	ctgtatagtt	acatctcatg	300
taaatataca	cagacatatt	ttgcagccag	taattgacag	ttaatgtcca	aaacagggtga	360
ttgataggta	acagaaatta	gataaccacc	aattttgccc	aagagaaaga	ctagaaggac	420
taaaagcagt	tgaatgtatg	gtactgacat	tgtcataagc	agtctgataa	ccagtttatt	480
gaaacgtgtg	cattaacaga	gaatttaatt	ttaaaacccat	aattttctcct	atccattaaa	540
atattataat	tgtagtagt	atgaaaccaa	caggaaatgt	tttttaataca	tttagtgagg	600
tgattcattt	gtttcatggg	caaacactat	ccaggaaaag	ccttgcttgc	ctgtttccca	660
aagagctcta	agaaatagaa	tcaagtgtaa	aatgggttcag	accattcagg	atttcttgctc	720
actcttctca	acccgatct	tctgtttatt	actgatgttt	gaaaccctgt	cattagcccc	780
ggcctgggta	aagccccctca	gagtcacctc	tcattcatag	caatagaatt	caacccccag	840
tggttgatgg	tgccccagc	acagccgaga	gacctgatct	ctggattcag	tgcttttagc	900
tcttcgagtt	taccctaaga	taccttcggg	caatatTTTT	aaccaaccca	aaagctcttc	960
aggtcatttc	tgaagaggac	aagggtgaatc	ttggcttgga	acaccatttt	tgggctcttg	1020

10004360.120701

ctactgaatg	aatcagaaag	gaattttttc	tgaagagcat	tagaaagtaa	aggagatggt	1080
aaaataagtt	cttgaagtat	gttttatatt	tatctaaaac	actgatttta	aaagtttaca	1140
ttcaaagtgt	tattcaaaag	aagtactgat	ttgtaattat	tatagtttgt	gtgtatcatc	1200
cccttttaac	cgtgcctaac	aactgtactt	aaattttgtt	ttcctagtgt	aacaaatggt	1260
tcccataaga	ttttctagag	ccaaataaat	ggagtgaana	attccttaag	tgttatataa	1320
gaaaatata	tagaaaatca	gctttggatt	atacgatttc	taaaatatac	taatacagaa	1380
tcctcagtaa	tatgttttga	attggatttt	ttctcagaac	tgttacataa	taaataatac	1440
atcaaccaga	aaaaaaaaaa	aaaaaaaaatn	c			1471

<210> 22
 <211> 1402
 <212> DNA
 <213> Homo sapiens

<400> 22						
agggacgtct	tgctgagga	gatgcccatt	tctgtcctgg	rttaccctca	ctgcgtgggtg	60
catgagctgc	cagagctgac	ggcggagagt	ttggaagcag	gtgacagtaa	ccaattttgc	120
tggaggaacc	tcttttcttg	tatcaatctg	cttcggatct	tgaacaagct	gacaaagtgg	180
aagcattcaa	ggacaatgat	gctgggtggt	ttcaagtcag	cccccatctt	gaagcggggc	240
ctaaaggtga	aacaagccat	gatgcagctc	tatgtgctga	agctgctcaa	ggtacagacc	300
aaatacttgg	ggcggcagtg	gcgaaagagc	aacatgaaga	ccatgtctgc	catctaccag	360
aaggtgcggc	atcggtgaa	cgacgactgg	gcatacggca	atgatcttga	tgcccggcct	420
tgggacttcc	aggcagagga	gtgtgccctt	cgtgcccaaca	ttgaacgctt	caacgcccgg	480
cgctatgacc	gggcccacag	caaccctgac	ttcctgccag	tggacaactg	cctgcagagt	540
gtcctggggc	aacgggtgga	cctccctgag	gactttcaga	tgaactatga	cctctgggta	600
gaaagggagg	tcttctccaa	gcccatttcc	tgggaagagc	tgctgcagtg	aggctggttg	660
ttaggggact	gaaatggaga	gaaaagatga	tctgaaggta	cctgtgggac	tgtcctagtt	720
cattgctgca	gtgctcccat	ccccaccag	gtggcagcac	agccccactg	tgtcttccgc	780
agtctgtcct	gggcttgggt	gagcccagct	tgacctcccc	ttgggttccca	gggtcctgct	840
ccgaagcagt	catctctgcc	tgagatccat	tcttcttcta	mttcccccam	cctcctctct	900
tggatatggt	tggttttggc	tcatttcaca	atcagcccaa	ggytgggaaa	gctggaatgg	960
gatgggaacc	cctccgcctg	gcattctaat	ttcaggggtc	atgctgatgc	ctctcgagac	1020
atacaaatcc	ttgcctttgt	cagcttgcaa	aggaggagag	tttaggatta	gggccagggc	1080
cagaaagtgc	gtatcttggg	tgtgctctgg	gggtgggggtg	gggtgtttct	gatgttattc	1140
cagcctcctg	ctacattata	tccagaagta	attgcccagg	ctccttcagc	tgccctcagca	1200
ctttgatatt	ggacagggac	aaggtaggaa	gagaagcttc	ccttaaccag	agggggccatt	1260
tttccttttg	gctttcgagg	gacctgaaat	atctatatat	aattctgtgt	gtattctgtg	1320
tcattgttgg	gttttttaag	tgattgtgta	ttctgtttac	attaaaaaga	agcaaaaaata	1380
ataaaaaaaaa	aaaaaaaaaa	ct				1402

<210> 23
 <211> 1047
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (301)
 <223> n equals a,t,g, or c

<400> 23						
ggcacagggg	actacaggca	cccacgacca	taccagcta	atttttgtat	ttttttgtag	60
agatgggggt	tcacgatgtc	gcccaggctg	gtcttgaact	cctgggcttg	agcgatcttc	120
ccatcttttc	atcttggcct	cctaaagtgc	tgggactgca	ggcatgagcc	accatgccca	180
gccaagattc	ttattgatta	cctgttggct	tcaagaagcc	aagccagttt	ccaatattcc	240
ccatttgctg	gagtcttggg	actttgggta	gaagcaactg	gtaaattggt	aattggaaca	300

nttgggtggtg	tagataacca	cgtatggcca	aacctagagc	atctaggctc	acaattacta	360
tcctgacttg	ataacaagtg	ttctgatatt	aacctgaaaa	tgggaataat	gccaaatctg	420
tgtaacttaa	catctatata	cacagtgggg	agaactgaag	ttattaaacc	tggaatctct	480
gtgatcaagg	ctaacagtag	ttatctaaga	agcaaaggac	ctacaattct	tagacttgga	540
gtcatattct	ttaaggacgt	gttctgaaac	tatatcaagc	atctggtttc	cacgtatttc	600
tccttcagaa	attatgaagt	acaagtaaaa	atgaaggtag	agggtgaagc	acatgctgct	660
ttcttgctct	tgagtggaga	cagttttcca	gccatcttaa	ccccttwaca	caaaacaatt	720
tgtgttttat	agcaaataag	tgactcaaca	taatttcaat	atgatgttta	tccaccagta	780
ctttcccttc	agcttctagt	cccataartg	gtttgtgaag	tcacgcgtta	cattagccaa	840
gataggccta	gacttgaagt	ctagaatgtt	tttcccacta	tatgccaaag	tagaatgtgg	900
gtatctcagg	gtcatttttg	ttgttcaatt	tcccacctgt	acagttgtta	tgattcactt	960
tccttatgtg	tctaataaat	cttgttccat	gaaatgatca	aaaaaaaaaa	aaaaaaaaact	1020
cgaggggggg	cccgggtacc	aaatcgc				1047

<210> 24
 <211> 990
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (834)
 <223> n equals a,t,g, or c

<400> 24						
ttggaaaggg	tctagctctt	tctcattcac	caactatatt	agaagcactt	gagggaaatt	60
taccactcca	aatccaaagc	aatgaacagt	cttttctgga	tgattttatt	gcctgtgtcc	120
caggatcaag	tggtggaagg	cttgcaagg	ggcttcagcc	agattcatat	gcggatcctc	180
agaaaacatc	tttgatcctg	gaataaggat	gatattcgtt	gtgggtggcc	taccaccata	240
actgttcaaa	caaaagacca	gtatggggat	gtggtacatg	ttcccaatat	gaaggtaatt	300
ataactggat	taaattagca	gacatctata	tactggctgc	aatgactgat	aaaatttttag	360
aaatgccaa	tgctgagr	ccatttgttc	taccctcttt	atataaaggg	tgatgctgaa	420
agtttgttta	aatgacttgt	ttatattaat	tagtcccca	gtgtccaagt	tacacctgtt	480
ttttttgtga	gtttgttctt	tacattttgc	tacctgttac	ggggactcaa	aggagggata	540
agaaagtatc	catctaaaga	gtgctagaca	catacagtga	agccctcaa	tatgtattga	600
ttgaataaat	gcatgaaaga	atacattttt	aaattttgtg	tatagttttg	aaagactcaa	660
gtacgttctg	tgtttggtat	tactgaaacc	acatttttaa	aataacactc	attaagttag	720
aaatatatga	gttttagattg	taaaagaatg	aggaattgaa	atagttgtat	accatattga	780
tgaatataga	gttttttagga	tacctcttac	ctgaaatatt	aataataatg	tttncagagc	840
atattataca	taattatttg	tgatttaatc	tgtaaatatg	aatatctcat	ttaaaacttt	900
tatttctgaa	aaaattatat	tgaataaaat	tttatatagg	cagtcgccag	ccctttcctc	960
cttcaaagtt	gtcttataga	gtgattgggt				990

<210> 25
 <211> 1208
 <212> DNA
 <213> Homo sapiens

<400> 25						
taatcgctac	tatagggaaa	gctggctcgt	gcaggtaccg	gtccggaatt	ccgggtcgac	60
ccacgcgtcc	gagcgaaatg	gcgcctccgg	cccccgggcc	ggcctccggc	ggctccgggg	120
aggtagacga	gctgttcgac	gtaaagaacg	ccttctacat	cggcagctac	cagcagtgca	180
taaacgaggc	gcasgggtga	agctrtcaag	cccagagaga	gacgtggaga	gggacgtctt	240
cctgtataga	gcgtacctgg	cgagaggaa	gttcgggtgtg	gtcctggatg	agatcaagcc	300
ctcctcggcc	cctgagctcc	aggccgtgcg	catgtttgct	gactacctcg	cccacgagag	360
tcggagggac	agcatcgtgg	ccgagctgga	ccgagagatg	agcaggagck	tgacgtgac	420

caacaccacc	ttcctgctca	tggcgcctc	catctatctc	cacgaccaga	acccggatgc	480
cgccctgcgt	gcgctgcacc	agggggacag	cctggagtgc	acagccatga	cagtgcagat	540
cctgctgaag	ctggaccgcc	tggacctcgc	ccggaaggag	ctgaagagaa	tgcaggacct	600
ggacgaggat	gccaccctca	cccagctcgc	cactgcctgg	gtcagcctgg	ccacgggtgg	660
tgagaagctg	caggatgcct	actacatctt	ccaggagatg	gctgacaagt	gctcgcccac	720
cctgctgctg	ctcaatgggc	aggcggcctg	ccacatggcc	cagggccgct	gggaggccgc	780
tgagggcctg	ctgcaggagg	cgctagacaa	ggatagtggc	taccrgaga	cgctggtcaa	840
cctcatcgtc	ctgtcccagc	acctkggcaa	gccccctgag	gtgacaaacc	gatacctgtc	900
ccagctgaag	gatgcccaca	ggccccatcc	cttcatcaag	gagtaccagg	ccaaggagaa	960
cgactttgac	aggctgggtg	tacagtacgc	tcccagcgct	gaggctggcc	cagagctgtc	1020
aggaccatga	agccaggaca	gaggccagga	gccagccctg	cagccctccc	caccggcat	1080
ccacctgcat	ccctctgggg	caggagccca	ccccagcac	ccccatctgt	taataaatat	1140
ctcaactcca	rggtgttcca	cctgaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaa						1208

<210> 26

<211> 1922

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1022)

<223> n equals a,t,g, or c

<400> 26

gtgctgcgct	actgagcagc	gccatggagg	actctgaagc	actgggcttc	gaacacatgg	60
gcctcgatcc	ccggctcctt	caggctgtca	ccgatctggg	ctggctcgga	cctacgtga	120
tccaggagaa	ggccatccca	ctggccctag	aagggaagga	cctcctggct	cgggcccgca	180
cgggctccgg	gaagacggcc	gcttatgcta	ttccgatgct	gcagctgttg	ctccatagga	240
aggcgacagg	tccggtggta	gaacaggcag	tgagaggcct	tgttcttgtt	cctaccaagg	300
agctggcacg	gcaagcacag	tccatgattc	agcagctggc	tacctactgt	gctcgggatg	360
tccgagtggc	caatgtctca	gctgctgaag	actcagcttc	tcagagagct	gtgctgatgg	420
agaagccaga	tgtggtagta	gggaccccat	ctcgcatatt	aagccacttg	cagcaagaca	480
gcctgaaact	tcgtgactcc	ctggagcttt	tggtggtgga	cgaagctgac	cttctttttt	540
cccttggtct	tgaagaagag	ctcaagagtc	tcctctgtca	cttgccccgg	atttaccagg	600
cttttctcat	gtcagctact	tttaacgagg	acgtacaagc	actcaaggag	ctgatattac	660
ataaccgggt	tacccttaag	ttacaggagt	cccagctgcc	tgggcccagac	cagttacagc	720
agtttcaggt	ggtctgtgag	actgaggaag	acaaattcct	cctgctgtat	gcctgtctca	780
agctgtcatt	gattcggggc	aagtctctgc	cttttgtcaa	cactctagaa	cggagttacc	840
ggctacgcct	gttcttgga	cagttcagca	tccccacctg	tgtgctcaat	ggagagcttc	900
cactgcgctc	cagggtgccac	atcatctcac	agttcaacca	aggcttctac	gactgtgtca	960
tagcaactga	tgctgaagtc	ctggggggccc	cagtcaaggg	caagcgtcgg	ggccgagggc	1020
cnaaagggga	caaggcctct	gatccggaag	cagggtgtggc	ccggggcata	gacttccacc	1080
atgtgtctgc	tgtgctcaac	tttgatcttc	ccccaaaccc	tgaggcctac	atccatcgag	1140
ctggcaggac	agcacgcgct	aacaaccacg	gcatagtctt	aacctttgtg	cttcccacgg	1200
agcagttcca	cttaggcaag	attgaggagc	ttctcagtgg	agagaacagg	ggccccattc	1260
tgctccctta	ccagttccgg	atggaggaga	tcgagggtct	ccgctatcgc	tgaggggatg	1320
ccatgcgctc	agtgactaag	caggccattc	gggaggcaag	attgaaggag	atcaagggaag	1380
agcttctgca	ttctgagaag	cttaagacat	actttgaaga	caaccctagg	gacctccagc	1440
tgctgcggca	tgacctacct	ttgcaccccg	cagtgggtgaa	gccccacctg	ggccatgttc	1500
ctgactacct	ggttctctct	gctctccgtg	gcctggtrcg	ccctcacaag	aagcggaaga	1560
agctgtcttc	ctcttgtagg	aaggccaaga	gagcaaagtc	ccagaaccca	ctgcgcagct	1620
tcaagcacia	aggaaagaaa	ttcagaccca	cagccaagcc	ctcctgaggt	tgttgggct	1680
ctctggagct	gagcacattg	tggagcacag	gcttacaccc	ttcgtggaca	ggcgaggctc	1740
tggtgcttac	tgacagcct	gaacagacag	ttctggggcc	ggcagtgctg	ggcccttttag	1800
ctccttggca	cttccaagct	ggcatcttgc	cccttgacaa	cagaataaaa	attttagctg	1860

10004350.120701

ccccaaaaaa aaaaaaaaaa aaaaaaactc gagggggggc ccgtacccaa ttcgccttat 1920
aa 1922

<210> 27
<211> 1951
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1892)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1930)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1934)
<223> n equals a,t,g, or c

<400> 27
tcgtccccag agcgggctga gccccaggcg saggggtggcg ggggagcctg ggggagccgc 60
cgccacctcc acgggacctc ctgagctcgg acaccagcgc cctgtcctat gactctgtca 120
agtacacgct ggtggtagat gagcatgcac agctggagct ggtgagcctg cgcggtgctt 180
cggagactac agtgacgaga gtgactctgc caccgtctat gacaactgtg cctccgtctc 240
ctcgccctat gagtgcggcca tcggagagga atatgaggag gccccgcggc cccagccccc 300
tgctgcctc tccgaggaaac tccacgcctg atgaacccga cgtccatttc tccaagaaat 360
tctgaacgt yttcatgagt ggccgctccc gctcctccag tgctgagtc ttcgggctgt 420
tctcctgcat catcaacggg gaggagcagg agcagacca ccggggccata ttcagggttg 480
tgccctcgaca cgaagacgaa cttgagctgg aagtggatga ccctctgcta gtggagctcc 540
aggctgaaga ctactggtac gaggcctaca acatgcgcac tgggtgcccgg ggtgtctttc 600
ctgcctatta cgccatcgag gtcaccaagg agcccagca catggcagcc ctggccaaaa 660
acagtgactg ggtggaccag ttccgggtga agttcctggg ctgagtcag gtccctatc 720
acaagggcaa tgacgtcctc tgtgctgcta tgcaaaagat tgccaccacc cgccggctca 780
ccgtgcactt taacccgccc tccagctgtg tctggagat cagcgtgcgg ggtgtgaaga 840
taggcgtcaa ggccgatgac tcccaggagg ccaaggggaa taaatgtagc cactttttcc 900
agttaaaaaa catctctttc tgcggatata atccaaagaa caacaagtac tttgggttca 960
tcaccaagca ccccgccgac caccggtttg cctgccacgt ctttgtgtct gaagactcca 1020
ccaaagccct ggcagagtcc gtggggagag cattccagca gttctacaag cagtttgtgg 1080
agtacacctg ccccacagaa gatattctacc tggagtagct gtgcagcccc gccctctgcg 1140
tccccagcc ctcaggccag tgccaggaca gctggtgtgt gacaggatgt ggcactgctt 1200
gaggaggggg acctgccacc gccagaggac aagggaagtgg ggcgctggcc cagggtaggg 1260
gagggtgggg caatggggag agggcaaatgc agtttattgt aatatatggg attagattca 1320
tctatggagg gcagagtggg ctgcctgggg attgggaggg acagggcttg gggagcaggt 1380
ctctggcaga gaaggatgtc cgttccagga gcacacggcc ctgccccatc ctgggcctta 1440
cctcccctgc cagggtcctg gcgctgtggc tcctgccttg atgaagcccg tgtcctgctt 1500
tgatgaagcc tgtgccacct gcaagtgcgc gccctgcccc tgcccccaacc cccaccgaag 1560
agccctgagc tcaggctgag cccagccacc tcccaaggac tttccagtga ggaaatggca 1620
acacgtggag gtgaagtccc tgttctcagc tccgtcatct gcggggcttc tgggtggctc 1680
ctgccactga cctcaccggc atgctggcct gtggcaggcc taggacctca ggcggggagg 1740
aggagctgcc gcaaggccct gtcccagcag aagagggagg ctctcctgact gacacaggcc 1800
agccccatct tggtcctgtc accctggccc caactattaa agtgccattt cctgtcaaaa 1860
aaaaaaaaaa aaaatcgggg gggggccgga anccaatttc ccccaaaaag gggggttata 1920
aaaattcccn ggcngtgttt ttaaaaattc g 1951

10004360-120701

```
<220>  
<221> SITE  
<222> (17)  
<223> n equals a,t,g, or c
```

<400> 28						
ggcacaggcc	gcaggggnacc	tatggggcgca	tataggttgt	aatgaaactg	tagtctcagt	60
tggaagccta	gacatgaaat	gggtcagtg	gcaaggctct	attcctagtc	tccagccatg	120
cctgtggaac	ctgarccrc	tctcagcaca	ttggaccag	gcagatgyaa	aaaattcaca	180
gaactatgat	ttggactcaa	gggtttgtag	atctctctct	tcattctaat	ttcagtgctt	240
aaaattcttg	catccrtgaa	cgagctgggc	atcttgatgag	acagggcyga	atactgcagt	300
tttctctcta	gaaatcatct	ggggcatctt	ctttgaactg	atgggaacaa	taaggcataa	360
ctgtttgac	aaacttggga	taartgattt	tgggataacg	atctaccaga	atggggatat	420
ttcacccttg	ttctctggag	gcaaaccaaa	gaatatcatg	accagcttct	aggcctcctg	480
aagtatatct	ctcacattgt	cctgtttctc	tgtctgaggag	cctgagatcc	ctgtgtgggg	540
attagacagt	ggactgttat	gggtgtaggt	gaattggctt	atcttgctctg	tcctgtctctg	600
aatgtattgc	aggaaytaaa	aaggaccaag	aagaggaaga	agaccaaggc	ccaccatgcc	660
ccaggctcag	cagggaagctg	ctggaggtag	tagagcctga	agtcttgcag	gactcactgg	720
atagatgtta	ttcaactcct	tccagttgtc	tgaaacagcc	tgactcctgc	cagccctatg	780
gaagttcctt	ttatgcattg	gaggaaaaac	atgttggctt	ttctcttgac	gtgggagaaa	840
ttgaaaagaa	ggggaagggg	aagaaaagaa	ggggaagaag	atcaaagaag	gaagaagaa	900
ggggaagaaa	agaaggggaa	gaagatcaaa	accaccatg	ccccaggctc	agcagggaagc	960
tctgtgtaga	gaaagrgcct	gaagtcttgc	aggactcact	ggatagatgt	tattcaactc	1020
cttcagttgt	gttgaactgt	gtgactcatg	ccagccctac	agaagtgcct	tttatgtatt	1080
ggagcaacag	catgttggct	tggctgttga	catggatgaa	attgaaaagt	accaagaagt	1140
ggaagaagac	caagacccat	catgccccag	gctcagcagg	gagctgctgg	atgagaaaga	1200
gcctgaagtc	ttgcaggact	cactggatag	atgttattcg	actccttcag	gttatcttga	1260
actgcctgac	ttaggccagc	cctacagcag	tgckgtttac	tcattggagg	amcaktacct	1320
tggcttkkct	cttgacgtgg	asaaattgaa	aagaagggga	aggggaaraa	aagaagggga	1380
agaagatcaa	agaaggaag	aagaagggga	agaaaagaag	gggaagaaga	tcaaaacca	1440
ccatgcccc	ggctcagcag	ggagctgtg	gatgagaag	ggcctggaag	cttcgaggac	1500
tcactggata	gatgttattc	aactccttca	gggtgtcttg	aactgactga	ctcatgccag	1560
ccctacagaa	gtgcctttta	yrtattggag	caacagygtg	ttggcttggc	tgttgacatg	1620
gatgaaattg	aaaagtacca	agaagtggaa	gaagaccaag	accatcatg	ccccaggctc	1680
agcaggggagc	tgctggatga	gaaagagcct	gaagtcttgc	aggactcact	ggatagatgt	1740
tattcgactc	cttcagggtta	tcttgaactg	cctgacttag	gccagcccta	cagcagtgtc	1800
gtttactcat	tggaggaaca	gtaccttgcc	ttggctcttg	acgtggacag	aattaaaaag	1860
gaccaagaag	aggaagaaga	ccaaggccca	ccatgcccc	ggctcagcag	ggagctgctg	1920
gaggtagtag	agcctgaagt	cttgaggag	tcactggata	gatgttattc	aactccttcc	1980
agttgtcttg	aacagcctga	ctcctggcag	ccctatggaa	gttcccttta	tgcattggag	2040
gaaaaacatg	tggcttttct	tcttgacgtg	ggagaaattg	aaaagaaggg	gaaggggaag	2100
aaaagaaggg	gaagaagatc	aamgaagraa	agaagaaggg	gaagaaaaga	aggggaagaa	2160
gatcaaaacc	caccatgccc	caggctcaac	ggcgtgctga	tggaaagtga	agagcstgaa	2220
gtcttacagg	actcactgga	tagatgttat	tgcactccgt	caatgtactt	tgaactacct	2280
gactcattcc	agcactacag	aagtgtgttt	tactcatttg	aggaaacagca	catcagcttc	2340
gccctttacg	tggacaatag	gttttttact	ttgacggtga	caagtctcca	cctggtgttc	2400
cagatgggag	tcataattccc	acaataagca	gcccttasta	akccgagaga	tgtcattcct	2460
gcaggcagga	cctataggca	mgtgaagatt	tgaatgaaag	tacagtttcca	tttggaaagcc	2520
cagacatagc	atgggtcagt	gggcatggct	ctattctctat	tctcaaaacca	tgccagtgcc	2580
aacctgtgtg	cagctcgaag	acaattggacc	cacgttaggt	gtgacacgtt	cacataactg	2640
tgcagcacat	gccgggagtg	atcagtcrga	catttttaatt	tgaaccacgt	atctctgggt	2700

```

agctacaaaaa ttcctcaggg atttcatttt gcaggcatgt ctctgagctt ctatacctgc 2760
tcaaggtcak  tgtcatcttt gtgttttagct catccaaagg tgttaccctg gtttcaatga 2820
acctaacctc attctttgtg tcttcagtgt tggcttggtt tagctgatcc atctgtaaca 2880
caggagggat ccttggctga ggattgtatt tcagaaccac caactgctct tgacaattgt 2940
taaccgcgta grctcctttg gttagagaag ccacagtcct tcagcctcca attggtgtca 3000
gtacttagga agaccacagc tagatggaca aacagcattg ggaggcctta gccctgtcc 3060
tctcrattcc atcctgtaga gaacaggagt caggagccgc tggcaggaga cagcatgtca 3120
cccaggactc tgccggtgca gaatatgaac aaygccatgt tcttgcagaa aacgcttagc 3180
ctgagtttca taggaggtaa tcaccagaca actgcagaat gtrgaract gagcaggaca 3240
gctgacctgt ctctttcaca tagtccatrt caccacaaat cacacaaca aaaggagarg 3300
agatatTTTTT gggtcaaaaa aagtaaaaag ataattgtagc tgcatttctt tagttatttt 3360
garcccaaaa tatttcttca tctttttgtt gttgtcatkg atggtggtga catggacttg 3420
tttatagagg acaggtcagc tgtctggctc agtgatctac attctgaagt tgtctgaaaa 3480
tgtcttcattg attaaattca gcctaaacgt tttgccggga aacttgacaga gacaatgctg 3540
tgagtttcca acctyagccc atctgcgggc agagaagggtc tagtttgctc atcascatta 3600
tcatgatatac aggactggtt acttggttaa ggagggggtct aggagatctg tcccttttag 3660
agacacctta cttataatga agtatttggg aggggtggtt tcaaaattag aaatgtcctg 3720
tattccratg atcatcctgt aaacatttta tcatttatta atcatccctg cctgtgtcta 3780
ttattatatt catatctcta cgctggaaac tttctgcctc aatgtttact gtgcctttgt 3840
ttttgctagt gtgtgttgtt gaaaaaaaaa acattctctg cctgagtttt aatttttgtc 3900
caaagttatt ttaatctata caattaaaag cttttgccta tcaaaaaaaaaa aaaaaaaaaa 3960
aaaaaaaaaa aaaaagcgga cgctggggc 3989

```

```

<210> 29
<211> 3735
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (110)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (3690)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (3716)
<223> n equals a,t,g, or c

```

```

<400> 29
ctgctgttcg ctggctgggc tccgcagcag gcttggccag csgctgacgg gtcggcgggc 60
gggttttgtg gaacaggcac gcagctgcag attttattct ggtagtgcan ccctctcaaa 120
ggttgaagga actgatgtaa cagggtattga agaagtagta attccaaaaa agaaaacttg 180
ggataaagta gccgttcttc aggcacttgc atccacagta aacagggata ccacagctgt 240
gccttatgtg tttcaagatg atccttacct tatgccagca tcatctttgg aatctcgttc 300
atttttactg gcaaagaaat ccggggagaa tgtggccaag tttattatta attcataccc 360
caaatatatt cagaaggaca tagctgaacc tcatataccg tgtttaatgc ctgagtactt 420
tgaacctcag atcaaagaca taagtgaagc cgccctgaag gaacgaattg agctcagaaa 480
agtcaaagcc tctgtggaca tgtttgatca gcttttgcaa gcaggaacca ctgtgtctct 540
tgaaacaaca aatagtctct tggatttwtg gtgttactat ggtgaccagg agccctcaac 600
tgattaccat tttcaacaaa ctggacagtc agaagcattg gaagaggaaa atgatgagac 660
atctaggagg aaagctggtc atcagtttgg agttacatgg cgagcaaaaa acaacgctga 720
gagaatcttt tctctaattgc cagagaaaaa tgaacattcc tattgcacaa tgatccgagg 780

```

10004350-120701

aatggtggaag	caccgagctt	atgagcaggc	atataaacttg	tacactgagt	tactaaacaa	840
cagactccat	gctgatgtat	acacattttaa	tgcattgatt	gaagcaacag	tatgtgcgat	900
aaatgagaaa	tttgaggaaa	aatggagtaa	aatactggag	ctgctaagac	acatggttgc	960
acagaagggtg	aaaccaaatc	ttcagacttt	taataccatt	ctgaaatgtc	tccgaagatt	1020
tcatgtgttt	gcaagatcgc	cagccttac	ggttttacgt	gaaatgaaag	ccattggaat	1080
agaaccctcg	cttgcaacat	atcaccatat	tattcgccgt	tttgcataac	ctggagaccc	1140
tttaaagaga	tcattccttca	tcattttatga	tataatgaat	gaattaatgg	gaaagagatt	1200
ttctccaaaag	gaccccggtg	atgataagtt	tttttcagtc	gccatgagca	tatgctcatc	1260
tctcagagat	ctagaacttg	cctaccaagt	acatggccctt	tcaaaaaccg	gagacaaactg	1320
gaaattctatt	ggacctgatc	aacatcgtaa	ttcttattat	tccaagttct	tcgatttgat	1380
ttgtctaatg	gaacaaattg	atgttacctt	gaagtggat	gaggacctga	taccttcagc	1440
ctactttccc	cactcccaaa	caatgataca	tcttctccaa	gcattggatg	tggccaatcg	1500
gctagaagtg	attcctaaaa	tttggaaaga	tagtaaagaa	tatggtcata	ctttccgcag	1560
tgacctgaga	gaagagatcc	tgatgctcat	ggcaagggac	aagcaccac	cagagcttca	1620
ggtggcattt	gctgactgtg	ctgctgatat	caaactctcg	tatgaaagcc	aacctcatcag	1680
acagactgct	caggattggc	cagccacctc	tctcaactgt	atagctatcc	tctttttaag	1740
ggctggggaga	actcagggaag	cctggaaaat	gttggggcct	ttcaggaagc	ataataagat	1800
tcctagaagt	gagttgctga	atgagcttat	ggacagtgtca	aaagtgtcta	acagcccttc	1860
ccaggccatt	gaagttagtag	agctggcaag	tgccttcagc	ttacctattt	gtgaggccct	1920
caccacagaga	gtaatgagtg	attttgcaat	caaccaggaa	caaaagggaag	ccctaagtaa	1980
tctaactgca	ttgaccagtg	acagtgtatc	tgacagcagc	agtgtacagc	acagtgtcac	2040
cagtgaaggc	aaatgaaagt	ggagattcag	gagcagcaat	ggtctcacca	tagctgtctg	2100
aatcacacct	gagaactgag	atataccaat	atttaacatt	gttacaagaa	agaaaagata	2160
cagatttggt	gaatttgta	ctgtgaggta	cagtcagtag	acagctgact	tatgtagatt	2220
taagctgcta	atatgtact	taaccatcta	ttaatgcacc	attaaaggct	tagcatttaa	2280
gtagcaacat	tgcggttttc	agacacatgg	tgagggtccat	ggctcttgtc	atcaggataa	2340
gcctgcacac	ctagagtgtc	ggtgagctga	cctcacgatg	ctgtcctcgt	gcgattgccc	2400
tctcctgctg	ctggacttct	gcttttgttg	gctgtgagtg	ctgtctgtgat	gctggctcct	2460
catcttaggt	gttcatgcag	ttctaacaca	gttgggggtg	ggtcaatagt	ttcccaattt	2520
caggatattt	cgatgtcaga	aataacgcac	cttaggaatg	actaaacaag	ataatggcag	2580
tttaggctgc	acaactggta	aaatgactgt	agataaatgt	tgtaattagt	gtacacgttt	2640
gtatttttgt	taatatagcc	gctgccatag	ttttctaact	tgaacagcca	tgaatgtttc	2700
atgtctccct	tttttttttg	tctatagctg	ttacctattt	tagtggttga	aatgagagct	2760
agtgtgaca	gaaggatgtg	gaatgtcttc	ttgacatcat	tgtgtattgc	tggtaatcaa	2820
gttggtaaog	actacttcta	gcagctctta	ccactatgac	ttaaagtggc	ctggaaggca	2880
gtaagtggag	gtttgcagca	ttcctgcctt	catgagggtc	tctaccactg	accactttgc	2940
acgtacctgg	ctcccagatt	tacttagtta	ccccacgatg	cgctccacata	agcagcttca	3000
tctttacctt	gccagagatt	acaattatgg	gatactctag	tctacttata	cttgtgttcc	3060
catctgtctg	ccatcctctg	aaggccaggga	cccagtcata	catccttaga	aaccaaagta	3120
tggtttttgt	tttctcttgg	aatgtcagggt	cttaaggcat	ttaattgagg	gacaaaaaaa	3180
aaaaaaagcc	gatatagtag	ctagctactt	aagcatccat	gggtattgct	ccatatcaaa	3240
gcagatttgc	aggacagaaa	gagtaaatta	gccttcagtc	ttggtttaca	gcttccaagg	3300
agagccttgg	ccacctgaaa	tgttaactcg	gtcccttccct	gtctctagtt	catcagcacc	3360
tgagatgoc	tgactcctgt	tagccttact	attcaatata	gtccttagat	tcacggtatg	3420
cctcttcccta	tccaggcacc	tattctgaat	caccatgttg	ctctgcagct	agagttgata	3480
ggagaaaaatc	catttgggta	gatggcctat	gaatttgtat	tagactttca	aaatgagtga	3540
tttgttagct	tggtaacttt	aagttttgtg	tacagatcct	ccaaacccat	actctgagca	3600
attaactgcc	ttgaacatag	agaaaattaa	ggcctcacag	gtgagctctc	catctctctg	3660
aaatgccttat	tttatcatag	tctttagccn	ctactatgag	taaaatgttc	tcttcngccg	3720
ggtgtggtga	ctcac					3735

```
<210> 30
<211> 1667
<212> DNA.
<213> Homo sapiens
```

<220>

<221> SITE
 <222> (1628)
 <223> n equals a,t,g, or c

<400> 30
 tagtaattca ttttaactcct cttacatgag tagcgacaat gagtcagata tcgaagatga 60
 agacttaaag ttagagctgc gacgactacg agataaacat ctcaaagaga ttcaggacct 120
 gcagagtcgc cagaagcatg aaattgaatc tttgtatacc aaactgggca aggtgcccc 180
 tgctgttatt attccccag ctgctccctc ttcagggaga agacgacgac ccactaaaag 240
 caaaggcagc aaatctagtc gaagcagttc cttggggaat aaaagcccc agctttcagg 300
 taacctgtct ggctcagagt cagcttcagt cttgcacccc cagcagaccc tccacctcc 360
 tggcaacatc ccagagtcgc ggcagaatca gctgttacag ccccttaagc catctccctc 420
 cagtgcacac ctctattcag ccttcaccag tgatggtgcc atttcagtac caagcctttc 480
 tgctccaggt caaggaacca gcagcacaaa cactgttggg gcaacagtga acagccaagc 540
 cgcccaagct cagcctcctg ccattgacgc cagcaggaag ggcacattca cagatgactt 600
 gcacaagttg gtagacaatt gggcccgcaga tgccatgaat ctctcaggca ggagaggaag 660
 caaagggcac atgaattatg agggccctgg aatggcaagg aagttctctg cacctgggca 720
 actgtgcac tccatgacct cgaacctggg tggctctgcc cccatctctg cagcatcagc 780
 tacctctcta ggctcactca ccaagtctat gtgccccca cagcagtatg gctttccagc 840
 taccocatctt ggctcactca ggagtgggac ggggtggcca gcaccacagc cacttggcca 900
 gttccaacct gtgggaactg cctccttgca gaatttcaac atcagcaatt tgcagaaatc 960
 catcagcaac cccccaggct ccaacctgcg gaccacttag acctagagac attaaactgaa 1020
 tagatctggg ggcaggagat ggaatgctga ggggggtggg gggggtggga agtagcctat 1080
 atactaacta ctagtgcctg atttaactgg ttatttcttg ccagagggga atgtttttaa 1140
 tactgcattg agccctcaga atggagagtc tccccgcctc cagttatttg aatgggagag 1200
 gaaggaaaga acagcttttt tgtcaagggg cagcttcaga ccatgctttc ctgtttatct 1260
 atactcagta atgaggatga gggctaggaa agtcttgttc ataaggaagc tggagaactc 1320
 aatgtaaaa caaacccatc tgtaatttcg agtgggtgga gctcttgctt ttggtacatg 1380
 cctgaatcc ctactccct caagaatccg aaccacagga caaaaaccac ctactgggct 1440
 ctctcctacc ctgcccctc cctttttttt taccctctc ttttttattt tttctttgct 1500
 ctttagaacc cagtgaaaaa taccagggtg ctgggggtgca actctttctt atgataggtc 1560
 attagtgtt taagcaaaa atattagcag ctttgactgc agcattagca attaggraaa 1620
 aaaaaaanwa aaaactcgag gggggggccc gttaccaat tcgccct 1667

<210> 31
 <211> 1408
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1385)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1395)
 <223> n equals a,t,g, or c

<400> 31
 attacacacc tgagcactgt gcctggcaag acctgtctta atagattaga gaaccactga 60
 tagatgggtca gctttctgta gcagtgagaa ccctacattt caaatgtgga tagcaccttt 120
 gcggggaaac atcacttggc acatctgcat tcttttttga cacagggtct cactctgttg 180
 cccaggctag agtgcattgc acgatcttag ctactgcaa cctccacctc ccaagttcaa 240
 gcgattcttc tgccctcagc tcctgagcag ctgggatcac agacatgcgc taccatgccc 300
 agctaatttt ttgtattttt tgtkgtttt tttttgttk taagtagaga cgggctttca 360
 ccacgttggc caggcaggtc tcgaactcct gamctcaggt gatccacca catctgcgtt 420

```

ccaatatctt tctcaacata atgatagccg taattaatat tttccagtac atttttatgc 480
ctttacacac gagagtggta gacagacaca aaccagatc tgtctgactc caaagcccgt 540
ttgtcatcat tctttttacg gtatcctata gtggtatcct ttacagaaag acagctttta 600
cccaacaaag acttaacttc ccaggatgcc agaaggacaa agcgggattg cttttaagra 660
graagttatc aagamcttat tttataaatg agattagata gggaaaggca atttatcttt 720
attaaaaact gaaaaggcca gcatagggaa ggaggtcctt cgggtggtctt tttcagggaa 780
atacttcagt tgcttttatt agaaacagat agtacctaag gttttgaggt aggwacagct 840
taaggcatgc taatgkcat gggtccttcc atagtcattt tkgatatttg gttwacattt 900
gagcaatagg cagcccttca ctgctgctgg aytcatcct gccaytatta caggtgacag 960
aggagacagg aggtatgtct tttctatttt tawacatgct ttatatttaa cacaagctct 1020
tgggtatctt agataaacag aagttgccta gcactccttt tagtgcattg aaccctttaa 1080
catttaagca aaataataaa cagtcttttg aggttcctta acaatgaaac gtgttcgagt 1140
ggcagcagcg gaatccatgc yctttctcct ggagtgtgca akagtccgtg gtcctgagta 1200
tctcacacag atgtggcatt ttatgtgtga tgctctaatt aaggccattg gtacagaacc 1260
agattcagac gtctctcag aaataatgca ttcttttgca aaggtgaata tttttctctt 1320
aaaaaatatg tataagggtg tatgttcatt tattagtctt gctaaaaaaa aaaaaaaaaa 1380
acttngaggg ggggnccggt acccaatt 1408

```

```

<210> 32
<211> 3186
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (24)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (666)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (682)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (3181)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (3184)
<223> n equals a,t,g, or c

```

```

<400> 32
gggagggtcga gaagccaata agtngttttt cattgaatcc tgcattgcac tctttgtttc 60
cttcatcatc aatgtctttg ttgtctcagt stttgctgaa gyrttttttg ggaaaccaa 120
cgagcagggtg gttgaagtct gtacaaatac cagcagtcct catgctggcc tctttcctaa 180
agataactcg acactggctg tggacatcta caaagggggg gttgtgctgg gatgttactt 240
tgggcctgct gcactctaca tttgggcagt ggggatcctg gctgcaggac agagctccac 300
catgacagga acctattctg gccagtttgt catggaggga ttcttgaacc taaagtggtc 360
acgctttgcc cgagtgggtc tgactcgctc tattgccatc atccccactc tgcttgttgc 420
tgtcttccaa gatgtagagc atctaacagg gatgaatgac tttytgaatg ttctacagag 480

```

10004360-120701

cttacagctt ccccttgctc tcatacccat cctcacattt acgagcttgc ggccagtaat 540
 gagtgacttt gccaatggac taggctggcg gattgcagga ggaatctggc cctatcatct 600
 gttccatcat atgtactttg tagtggttta tgtccgggac ytaaggcatg tgscattata 660
 tgtgngggct gctgtgggtc ancggtggctt atctgggctt tgtgttctac ttggrttggc 720
 aatgtttgat tgcactgggc atgtccttcc tggactgtgg gcatacggta agcatctcta 780
 aaggcctgct gacagaagaa gccacccgtg gctacgttaa ataacactgg attagtctgt 840
 cttctgcagg tagccatcag agccagtgtg tttctatggt ttactgtgtg aacatagcca 900
 aaagtatgtg ccgttgacac gactgtgttt atgactcaac cgttggttgg aaaagacttt 960
 gtttcatgtg tatttgaaag atggaattat ttttccctc ctgacctaac cttagaactg 1020
 gattagggtg ggatccttga aaagctgaca tttgtgcta tcattccaac actaaattct 1080
 taagtagttg cccaaggggc agctcagttt atccttcgga gagacaagga tatgcatgat 1140
 tcttaaccag gctatatgtt aaaaaaaaaa tggaaaatgc aatacatttt ttattataca 1200
 aactacagaa tgagtatgca agttttattt atcaaaatgt aatggatttt taaaggctga 1260
 gaaattttcc ttatacctac cttttcagtt attttaatta taccaaatta tcaactagaa 1320
 tagcttcac ccatatgaaat ataaaaatgaa gagacaccta gctctatcag gcttaggatt 1380
 ctttgaactt atttccactt taattttctca gtggaagtta agaggggtga gaaaacaaag 1440
 aaggggaaaa actgacaact aacaaaacca gcaccacatc gctaggtggc gcttactaat 1500
 taccttctca ggattttctc cagattgaaa agcttatgag gatttcttgg gagtcttaat 1560
 aacctgcctg ttagtacaga gctttcctga tgatatttac tcttgagcac atgtggtgtg 1620
 aaaaccttaa ctttctttct ccaggagggt ggtgatagaa acagatggta gtatttatga 1680
 actgtgttct tctgtgaaatg ttgaggggtg ggagaaaaga ctttaaggga ggagagccat 1740
 ctattttgtt cctaaagcca cctctcagca gaatcgtcat gtttttctga tgcaccgctc 1800
 tgcttcatgc ccaagatgac ttgagggca atctcaggag ctgtggactt aaccattgca 1860
 aagcacactg tctttctcag cgttctctgc aagtcagtag gtgttagtat ggttgcaaaag 1920
 ttcactgtct cagcaaagtt gaactgggct acctctctac agctgtttcc tcagagggaa 1980
 aaatcttgag accagatggt ggagctctgg agtcagagga aatgggtgtc ttcagcacia 2040
 agctgtgtct tttacttcag ccactgtctga catttttaca taccgagcct gagattgtgt 2100
 gattatctca aatcaaatca ctttgatgga gataaataat caaaactgtt ttatagtcat 2160
 tgatttggtg agaacagtaa tggaaaatgg tgttgaagga cttctcattt ttggagcttt 2220
 ccttccagag tccgtgctga ttggtgttgc ctgttcatct gagcccccac aagcattatt 2280
 actgatactt gcacacagtc aaaagcgcag actggatgga tgggtctttta taaggcattt 2340
 aagggtacac tactgtgttt cactgaccat acatttttct tagccctca agtaatatag 2400
 cacagagtta tgaatgacaa ttccctaac cattcctctt catatctgcc tcttccctt 2460
 accatcgtaa ttctccaaac tggtcataaa ggcactctgt gaagatattg gggactgaca 2520
 tcttaagctc tcacctggct gcagtaggaa aggccaaact gacgacaaaa aaaaaattct 2580
 ttataaagat gatatggtta catgtatctt tgccctgggt ctgggtgggt ccagtcagtc 2640
 tcagatttac aagcatttag gagcctaggt aaaagctgct agtattcttt taaaagttac 2700
 atttatgact tgcaatgata gaaaactcct tccaattaaa tggcatttta taatattatg 2760
 tgtgtacttc accagtgtta aataaccctc atacgttatt gcatttgatc ttcacagaaa 2820
 gtgcatttta accagtactc tgggtgcaat aaataatatg tagaaattta agtcctccaa 2880
 ttccagcata tccagtgagt tttgacagtg tgtttatgtg gaatgtttta ggatatacaa 2940
 ttgtacttta tataaattgg ttcttgttct tcttaaatgt gacatgaaat aattgtgtctg 3000
 ctacattata ctggaaatta acaggggaaa agggaagagc tcttggctcc cttgaggttc 3060
 tgctagtggg gttaggagt gttacaactg agcttttagt aaccatttaa ccgtatgtaa 3120
 acttgggttc taattaaaaa aaaatttctt tttccaaaaa aaaaaaaaaa aaaaaaatt 3180
 nctnngg 3186

<210> 33
 <211> 971
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (957)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (964)
 <223> n equals a,t,g, or c

<400> 33
 cgcgctcgaa ctcgggccg cgacatccac ggggcgcgag tgacacgcgg gagggagagc 60
 agtggttctgc tggagccgat gccaaaaacc atgcatttct tattcagatt cattgttttc 120
 ttttatctgt ggggcctttt tactgctcag agacaaaaga aagaggagag caccgaagaa 180
 gtgaaaatag aagtttttga tcgtccagaa aactgctcta agacaagcaa gaagggagac 240
 ctactaaatg cccattatga cggctacctg gctaaagacg gctcgaaatt ctactgcagc 300
 cggacacaaa atgaaggcca cccaaatgg tttgttcttg gtgttgggca agtcataaaa 360
 ggcctagaca ttgctatgac agatatgtgc cctggagaaa agcgaaaagt agttataccc 420
 ccttcatttg catacggaaa ggaaggctat gcagaaggca agattccacc ggatgctaca 480
 ttgatttttg agattgaact ttatgctgtg accaaaggac cacggagcat tgagacattt 540
 aaacaaatag acatggacaa tgacaggcag ctctctaaag ccgagataaa cctctacttg 600
 caaagggaat ttgaaaaaga tgagaagcca cgtgacaagt catatcagga tgcagtttta 660
 gaagatattt ttaagaagaa tgaccatgat ggtgatggct tcatttctcc caaggaatac 720
 aatgtatacc aacacgatga actatagcat atttgtattt ctactttttt tttttagcta 780
 tttactgtac tttatgtata aaacaaagtc acttttctcc aagttgtatt tgctattttt 840
 cccctatgag aagatatttt gatctcccca atacattgat tttggtataa taaatgtgag 900
 gctgttttgc aaacttaaaa aaaaawwaaa aaaactsgag gggggcccg acccaantcg 960
 ccgnatatga t 971

<210> 34
 <211> 1792
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1767)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1768)
 <223> n equals a,t,g, or c

<400> 34
 gaacccccctt tctcctggta aagggttaagg ggggggataa tgtttaccac aggtacgaaa 60
 tagtcacttt aacattgaga cctctgcctc attgaattca ggttttttaa gtacttgaaa 120
 ctcttcagat tctccttatt ttagtttctt tttacattta tgaagtagaa agcattgttt 180
 tgtaaaactgt tttgaaaata aatagcctag tctcttatcc tctttagcgt ggattaaagg 240
 tgaagttctg caaatgggag agtgttcaca gtagatagct cagattgatt gaacacattt 300
 gaggaagaga ctcttgcctg agataccagc atttttacia atacttttta tgtacattct 360
 ttattttgtc attttgtcaa cctctctccc aagcacatct tcttctcttt tactatgtct 420
 atgtagggaa aaacaaaaca aaaaattgca cttacgttac actcccaaaa tgtgggtaat 480
 ccgtgtcttt caaaaaacat ttctgttttt tgttttgttt tggtcagtc attgcataag 540
 tgacaagttt ggggtgcttg ggcacgtatg tatgaagcgg gagggggatg asaattgcct 600
 gtcttctcagt argctgtaaa agtaatttac atgtaagtaa aaagggaata tagaatagat 660
 gccaaagtca tttattcagt ccttagtttt cttatgtggc attactgcat ctgctagtta 720
 gtgagaaaagc accctcagct tttactgctc cctccctgct ctgccaacac acttgatgtg 780
 tgcaaacagc cctcaagtat ctgtcagatg acctatataa ggtattgaat aaggatttct 840
 tgtcagttta gaaatggact ggataaaaact tacttgggtg tcattatttt atctcatttg 900
 tctgtttaca tgccctatgt taagataatt atattgccac taataatcaa gatgctaaat 960
 gagtattaca actgggcta atcatttttt atatacaagg gtatgtgtat atttgggaat 1020

10004360.120704

```

grtatgagaa actcatttgt acccatttga gtgatattgc acaacaaaca cagataycta 1080
cagactccgt tttcattttc tcgtgttctt tatgataatg atctttgtag attggttatt 1140
tctgtacttt atctgtaata aactttgtag atcctgtgaa ccattacttt gcctaaatca 1200
cttgagactt gagtctttta taacaaagca tcaatattca ctaaagtcaa tctcttttga 1260
gtttctgtga cttggctaga agctcctgac actaagggat tagtggttaat tttccctggg 1320
gggtgtccac tagggcatta ctgtataatg acttgatggt gccacataga cttcaagata 1380
tataatattt tgaggatttt gttgattggc ctatgtttta ttgcatagtg tgaaacgtgt 1440
aaagcttggg taacctgtat atagatagct tattgttgac tagttatagt gtatttaggg 1500
ttgcctgtaa tatttaagct tctttactga tgtgtgtgct ggtaggaaca tataattttt 1560
gtacattata tttactgaga tgttgccctt tttattttac aaatactttg gaattccaat 1620
gtgttttttg cttccgtgag gattaatttg gaaagggttt taatgacatt cactgattt 1680
cagattttgc ttgagattga cttcaataaa ttgtcctgta tgttccaaaa aaaaattaaa 1740
aaactcgagg gggggccggt acccaanncg ccggatatga tcgtaaaca tc 1792

```

```

<210> 35
<211> 896
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (6)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (8)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (870)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (877)
<223> n equals a,t,g, or c

```

```

<400> 35
agttgnanac aacaggacct gagtcccttg gcagcaccag taggttgccc cytgcytcyt 60
gccagcytca cytgccacyt tytgccccty tcgggatgcc ttcgcagaca gagytyttcg 120
ctgcctgtgg tggccaytct ttgcttttgg tttctcttgc ccttggcctc cctttttgtc 180
cccgggcagc cttgtgtgac ctgccccttt cctcccttc ctttcagga caagcacgcc 240
gaggaggtgc ggaaaaacaa ggagctgaag gaagaggcct ccaggtaaag cctagaggcc 300
aaagaacttt ccaggtcagc cggacagtc cagcagctcc acgttccagg cagcctcgmc 360
cgccggctgc gctcccagca ctgggggttg gggggagggg ggtggccaag gggcgtttcc 420
tctgcttttg gtgtttgtac atgttaagaa ttgaccagtg aagccatcct atttgtttcc 480
ggggaacaat gacgggggtg garaggggag aggagagagt ttgggaaagg gagatggaga 540
agaactcaag gacattgcaa ccctgcccgg cgcagatctg attttcacat ctctacctgg 600
acattgagcc tcccaggcac catgttgagg agagatgaaa accagggcgg tagaacttca 660
gggtgaagga cagagtcctg ggtggggcag cggctgtagg gcgcaccaga gaaccagcc 720
agagggggtg tgagtaccag tgggtgttgc tccaccctgc agcaggtggg atgaggtctg 780
tgtgtgtgtg tgaaccatca ttttttgatc atcatgacca atgaaacatt gaaaaaaaaa 840
aaaaaaaactg gagggggggc cgtacccaan tcgccgnata gtgatcgtaa acaatc 896

```

J0004350 "J20701

[illegible]

aa

1382

<210> 38
 <211> 872
 <212> DNA
 <213> Homo sapiens

<400> 38
 gggctacttc aaagccctgg gccttatttc ttcaggtaaa aaaatataaa gtcagatctc 60
 atcccggctg gccatgctgt tagacccttt catccttctc ttctgcctct tctcaacagc 120
 tgcccagctc tgtttggaa tcatatacat acagttctaa tactgatgta tttaccctca 180
 taagccactc aaccagaaat cttatttgaa ttataatcca gaaacatcag gtgacgtgtg 240
 agactactgt atgagaaaga gacagtttaa gggtcagtc aatggaaaaa agagttctca 300
 gagctttctt tagcttattc tcatcaaaga gctttctctg cagaaggaaac ctactgggtc 360
 ctcttttcca gtcctagaaa tctgaccta gagtggctta atcctgctag cacctctctc 420
 tcgcactctg gtgcaaatg actccaggaa ctgggccatg atgtggtggg aatgacctta 480
 cctgagcat gtcactcatg cattgaacaa cagctaagag cagagcttag agcttagagc 540
 tgggccctgt aagggtgagag gaatcacatc ctgcagaagt ctgtcctgag aagcaggtac 600
 tctgtgcaca gcagagacac agtggatacc tgagtaacaa taatacaaga caggacgtgg 660
 gmacagcaaa agatttgggt gtcagaagar gccgagaaca cttcaggga ggaacattca 720
 rarttggtct tggaggaart aggcmsaag gctgggcagg atttcmcggt gcagagatgg 780
 agcaagcaat tgaaatgaaa gccatggcat gggaaaagga gcactggcca caggagatgc 840
 aacgttgtga tgcaaggcca ctgtggagcc at 872

<210> 39
 <211> 812
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (794)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (806)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (810)
 <223> n equals a,t,g, or c

<400> 39
 ggcagaggct caccacagca gagattgagg gggaaccgtg atgaaatatt taagtattct 60
 gcttgatgat aataattttt ctcttatgtt aatgttggtc ccgtttgggt gtttagcttt 120
 tgaaaggagt atgaaaatgc ggaatggggc tttggggctt gaggagggtg gatctctagt 180
 gtttaaaaaa ttaattgca caaatagaaa taattcaccc acattattga accccactaa 240
 agcatatcct ttttgtccat attcctttcc tgctgccctc gtgtgtacca ttattactca 300
 gttgtgattt gagctcgttc cacttaaagt cattcataga tacttttgcg tcgtgttkga 360
 atatttattg aatttctatt ctgtgtttta cttaattact ttattatgga acctttacac 420
 aggtctgggt tacttgttct ttgaaaagtc ttatgttgac caccatcact gagcatatag 480
 ctttttccct atttccttgg gataattacc cgaagtggaa ataccgaatc aaacttctgt 540
 tttctttctt tggcactatt atataaattg ttttccaaac aaggcatgtt tacaatagac 600
 atttttcaaa atctgggtat ttgtcctatt ttgtctctct tatgcagaat tcagcggggg 660

10004560 "120"01

gccaaagtcgt	tttctgtgtg	ggttgagaga	caggctgtgc	agccactgt	tgcataggac	720
taactactac	aaatcatgct	gagaccgagc	tatttttgc	gcttagargc	tttgcagcct	780
tgagtaagtt	tcgncatctg	gaaacnttgn	aa			812

<210> 40

<211> 1515

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> n equals a,t,g, or c

<400> 40

aattcggcac	gagggaaatt	caagcacttt	tcctaaaaga	agggggaatg	gatgctgaaa	60
caacacgtnt	cccacaaagg	gagcagacac	tgggcttgtg	aagctgcccc	ataccttccc	120
cacagaactg	gggtccggcc	tccttgacat	gcagatttcc	acccagaaga	cagagaagga	180
gccagtggtc	atggaatggg	ctgggggtcaa	agactgggtg	cctgggagct	gaggcagcca	240
ccgttttcagc	ctggccagcc	ctctggaccc	cgaggttggg	ccctactgtg	acacacctac	300
catgcggaca	ctcttcaacc	tcctctgggt	tgccctggcc	tgagccctg	ttcacactac	360
cctgtcaaag	tcagatgcca	aaaaagccgc	ctcaaagacg	ctgctggaga	agagtcagtt	420
ttcagataag	ccggtgcaag	accgggggtt	ggtggtgacg	gacctcaaag	ctgagagtgt	480
ggttctttgag	catcgcagct	actgctcgcc	aaaggcccg	gacagacact	ttgctgggga	540
tgtactgggc	tatgtcactc	catggaacag	ccatggctac	gatgtcacca	aggtctttgg	600
gagcaagttc	acacagatct	caccggtctg	gctgcagctg	aagagacgtg	gccgtgagat	660
gtttgaggtc	acgggcctcc	acgacgtgga	ccaagggtgg	atgagagctg	tcaggaagca	720
tgccaagggc	ctgcacatag	tgccctgggt	cctgtttgag	gactggactt	acgatgattt	780
ccggaacgtc	ttagacagtg	aggatgagat	agaggagctg	agcaagaccg	tggtccaggt	840
ggcaaagaac	cagcatttctg	atggcttctg	ggtggaggtc	tggaaccagc	tgctaagcca	900
gaagcgcgtg	accgaccagc	tgggcatggt	cacgcacaag	gagtttgagc	agctggcccc	960
cgtgctggat	ggtttcagcc	tcattgacct	cgactactct	acagcgcctc	agcctggccc	1020
taatgcaccc	ctgtcctggg	ttcgagcctg	cgtccaggtc	ctggaccgca	agtccaagt	1080
gcgaagcaaa	atcctcctgg	ggctcaactt	ctatggtatg	gactacgcga	cctccaagga	1140
tgcccgtgag	cctgttctgc	gggccaggta	catccagaca	ctgaaggacc	acaggccccg	1200
gatgggtgtg	gacagccagg	ytccagagca	cttcttcgag	tacaagaaga	gccgcagtgg	1260
gaggcacgtc	gtcttctacc	caaccctgaa	gtccctgcag	gtgagggtgg	agctggcccc	1320
ggagctgggc	gttgggggtc	ctatctggga	gctgggccag	ggcctggact	acttctacga	1380
cctgctctag	gtgggcattg	cgccctccgc	ggtggacgtg	ttcttttcta	agccatggag	1440
tgagttagca	ggtgtgaaat	acaggccttc	actccgttaa	aaaaaaaaaa	aaaaaaaaaa	1500
aaaaaaaaaa	aaaaa					1515

<210> 41

<211> 704

<212> DNA

<213> Homo sapiens

<400> 41

aagatgggtg	cgcccagagc	ttcgctctat	gctgctcccc	tgagagaggc	gtttccatca	60
accagttttg	caaggagtgc	aatgagagga	caaaggacat	caagggaaggc	attcctctgc	120
ctaccaagat	tttagtgaag	cctgacagga	catttgaaat	taagattgga	cagccactg	180
tttccacttt	cctgaaggca	gcagctggga	ttgaaaagg	ggcccgga	acagggaaag	240
aggtggcagg	cctggtgacc	ttgaagcatg	tgtatgagat	tgcccgcatc	aaagctcagg	300
atgaggcatt	tgccctgcag	gatgtacccc	tgtcgtctgt	tgtccgctcc	atcatcggt	360
ctgcccggtc	tctgggcatt	cgcggtggtg	aggacctcag	ttcagaagag	cttgacagctt	420
tccagaagga	acgagccatc	ttcctggctg	ctcagaagga	ggcagatttg	gctgcccagg	480

10004360-120704

aagaagctgc	caagaagtga	cccttgcccc	accaactccc	agattttcaaa	ggaggtagtt	540
gcaaaagctg	tgcccaaggg	gaggaaggag	gtcacaccaa	tatgatgatg	gttttcatga	600
ctttgaatga	tatatttttg	tacatctagc	tgtatcgagg	catcaggcct	gaataaacat	660
cctttcttaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa		704

<210> 42
 <211> 1094
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (196)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (226)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (302)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (596)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (952)
 <223> n equals a,t,g, or c

<400> 42		
ggcagctttc	ttacaaaccc atccttctga aatgttgott caaattcadc ctctgctccc 60	
cagtcccact	attccacaca tactgttact gtttctttat cctactttct caattttgga 120	
acatagttgc	agttactgca ttgaatacct gtgggtttgc ctgttggtct gtctgtctct 180	
gtgggtcttg	taatantgga tcccagagat aaaatggaca gttgtnatgc acagttaatt 240	
cagaaaactag	accttacttg ctgtgtgaaa taccaactaa attctcagtg aactcagctg 300	
ancttttatct	ccttttgttt cccaattta taatttcagt tcaggcccag aaagatggaa 360	
tcccagctaa	gaaatacaag ttacaccctg tactagcagc ccatgtgtgc atgttcttta 420	
agtgtctctg	cagctatgtc atttatattg atttcctgt attattataa gcaaagcaaa 480	
tttgaggaaa	aaaaccata ataccacacc tcattttttt caagtaatag ggtcataagt 540	
ctcatyctyc	atataatatg ttgagtatgc agtatattat gtgttaggct ctgganaggc 600	
agaggttaga	tcatgtwaca gatcatatck gattaggcag ataaacagta ttttaacctt 660	
ttccttatta	tatgtaactt gctttcaggt tttttaatgt tactattatg tctttaatat 720	
attatcttta	tttgtaactt tgtatacaga gtgattttcc ttttttaaaa aaaatttgtg 780	
ctttaggatg	gattccaaag atgtggaatc agtaggttta aggaatatgg atattttggc 840	
tggcaagggtg	gctcacacct gtaatcccag cactttggga ggctgaggtg ggtggatcac 900	
ctgaagtcag	gagttcgaga ccagcctgac caacatggcg aaaccctgtt tntactaaag 960	
acacacwaa	aattrgccag tgggtggggc atgtgcttgt agtcccactt agctactcga 1020	
gaggctgagg	caggagaatc gcttgaaccc gggaggcaga ggttgcagtg aggcaagatg 1080	
gcacctctac	actc	1094

10004560.120701

<210> 43
 <211> 1821
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1801)
 <223> n equals a,t,g, or c

<400> 43

tggccttaggc	catcaccctt	cccttggtctg	gaactactgg	acagaccctt	ttgagatgtg	60
cctgtggtgc	tgtggagatg	tgtgtagtgg	tcttagctct	ttgttgagct	tgtgtgtgtg	120
ttgtgtagtc	ttagctgtat	gctgaaattg	ggcgtgtgtt	ggagggcttc	ttagctcttt	180
ggtgagattg	tatttctatg	tgtttgtatc	asctgaatgt	tgctggaaat	aaaaccttgg	240
tttgtmaagg	ctcytttttg	tgggaagtaa	gtaggggaaa	aggtctttga	gggttcctag	300
gctcctttgt	acaacaggaa	aatgcctcaa	agccttgctt	cccagcaacc	tggggctggt	360
tcccagtgcc	tggctcctgcc	ccttcctggt	tcttatctca	aggcagagct	tctgaatttc	420
aggccttcat	tccagagccc	tcttgtggcc	aggccttcct	ttgctggagg	aaggtagaca	480
gggtgaagct	gatgctgtac	ttgggggatc	tccttggcct	gttccaccaa	gtgagagaag	540
gtacttactc	ttgtacctcc	tggtcagcca	ggtgcattaa	cagacctccc	tacagctgta	600
ggaactactg	tcccagagct	gaggcaaggg	gatttctcag	gtcatttgga	gaacaagtgc	660
tttagtagta	gtttaaagta	gtaactgcta	ctgtatttag	tgggggtgga	ttcagaagaa	720
atttgaagac	cagatcatgg	gtggtctgca	tgtgaatgaa	caggaatgag	ccggacagcc	780
tggctgtcat	tgctttcttc	ctccccatth	ggaccttctt	ctgcccttac	atttttgttt	840
ctccatctac	caccatccac	cagtctatth	attaacttag	caagaggaca	agtaaagggc	900
cctcttgggt	tgattttgct	tctttcttth	tgtggaggat	atactaagtg	cgactttgcc	960
ctatcctatt	tggaaatccc	taacagaatt	gagttttcta	ttaaggatcc	aaaaagaaaa	1020
acaaaatgct	aatgaagcca	tcagtcaagg	gtcacatgcc	aataaacaat	aaattttcca	1080
gaagaaatga	aatccaacta	gacaaataaa	gtagagctta	tgaatatggt	cagtaaggat	1140
gagtttggtg	ttttttggtt	tgttttggtt	tgktttttta	aagacggagt	ctcgtctgt	1200
cactcagggt	ggagtgcagt	ggtatgatct	tggctcactg	taacctccgc	ctcccgggtt	1260
caagccattc	tcctgcctca	gtctcctgag	tagctgggat	tacaggtgct	tgccaccatg	1320
cctggctaata	ttttgtgttt	ttagtagaga	caggggttca	ccatgttggt	cgggctgggt	1380
tcaaactcct	gacctcttga	tccgcctgcc	ttggcctccc	aaagtgatgg	gattacagat	1440
gtgagccacc	cgtgccctag	ccaaggatga	gatttttaaa	gtatgtttca	gttctgtgtc	1500
atggttgga	gcagagtag	gaaggatatg	gaaaagggtca	tggggaagca	gaggtgattc	1560
atggctctgt	gaatttgagg	tgaatggttc	cttattgtct	aggccacttg	tgaagaatat	1620
gagtcagtta	ttgccagcct	tgggaatttac	ttctctagct	tacaatggac	cttttgaact	1680
ggaaaacacc	ttgtctgcat	tcactttaaa	atgtcaaaac	taatttttat	aataaatggt	1740
tattttcaca	ttgaaaaaaa	aaaaaaatth	aaaaacycgg	ggggggcccs	gwaccccat	1800
ngcccctaag	gggggggggt	t				1821

<210> 44
 <211> 1024
 <212> DNA
 <213> Homo sapiens

<400> 44

ggggcacagt	tgaagaagcg	accgagggac	tgggagtcgt	tagtgaggat	gacgcggcat	60
ggcaagaact	gcaccgcagg	gccgtctaca	cctaccacga	gaagaagaag	gacacagcgg	120
cctcgggcta	tgggaccag	aacattcgac	tgagccggga	tgccgtgaag	gacttcgact	180
gctgttgtct	ctccctgcag	ccttgccaag	atcctgttgt	cacccagat	ggctacctgt	240
atgagcgtga	ggccatcctg	gagtacattc	tgcaccagaa	gaaggagatt	gcccggcaga	300
tgaaggccta	cgagaagcag	cggggcaccc	ggcgcgagga	gcagaaggag	cttcagcggg	360
cggcctcgca	ggaccatgtg	cggggcttcc	tggagaagga	gtcggctatc	gtgagccggc	420
cctcaacc	tttcacagcc	aaggccctct	cgggcaccag	cccagatgat	gtccaacctg	480

ggcccagtg	gggtcctcca	agtaaggaca	aggacaaagt	gctgcccagc	ttctggatcc	540
cgctcgctgac	gcccgaagcc	aaggccacca	agctggagaa	gccgtcccgc	acggtgacct	600
gccccatgtc	agggaagccc	ctgcgcagt	cggacctgac	gcccgtgcac	ttcacaccgc	660
tagacagctc	cgtggaccgc	gtggggctca	tcaccgcag	cgagcgctac	gtgtgtgccc	720
tgacccgcga	cagcctgagc	aacgccaccc	cctgcgctgt	gctgcggccc	tctggggctg	780
tggtcaccct	cgaatgcgtg	gagaagctga	ttcggaagga	catggtggac	cctgtgactg	840
gagacaaact	cacagaccgc	gacatcatcg	tgctgcagcg	gggcggtacc	gsttcgcggg	900
ctccggagtg	aagctgcaag	cggagaaatc	acggccggtg	atgcaggcct	gagtgtgtgc	960
gggagaccaa	ataaaccggc	ttgggtgcgc	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	1020
aaaa						1024

<210> 45
 <211> 983
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (976)
 <223> n equals a,t,g, or c

<400> 45						
cgacacggct	gcgagaagac	gacagaaggg	cccgaccgcg	agccgtccag	gtctcagtg	60
tgtgcccccc	ccagagccta	gaggatgttt	catgggatcc	cagccacgcc	gggcatagga	120
gccccctggga	acaagccgga	gctgtatgag	gaagtgaagt	tgtacaagaa	cgccccggag	180
aggggagaagt	acgacaacat	gycagagctg	tttgcggtgg	tgaagacaat	gcaagccctg	240
gagaaggcct	acatcaagga	ctgtgtctcc	cccagcgagt	acactgcagc	ctgctcccgg	300
ctcctggtcc	aatacaaagc	tgcccttcagg	caggtccagg	gctcagaaat	cagctctatt	360
gacgaattct	gccgcaagtt	ccgcctggac	tgcccgcctg	ccatggagcg	gatcaaggag	420
gacgggcccc	tcaccatcaa	ggacgacaag	ggcaacctca	accgctgcat	cgcagacgtg	480
gtctcgctct	tcatcacggg	catgggacaag	ctgcgcctgg	agatccgcgc	catggatgag	540
atccagcccc	acctgcgaga	gctgatggag	accatgcacc	gcatgagcca	cctcccaccc	600
gactttgagg	gccgccagac	ggtcagccag	tggtgcaga	ccctgagcgg	catgtcggcg	660
tcagatgagc	tggacgactc	acaggtgcgt	cagatgtgtg	tcgacctgga	gtcagcctac	720
aaogccttca	accgcttcct	gcatgcctga	gcccggggca	ctagcccttg	cacagaaggg	780
cagagtctga	ggcgatggct	cctgggtccc	tgtccgccac	acaggccgtg	gtcatccaca	840
caactcactg	tctgcagctg	cctgtctggg	gtctgtcttt	ggtgtcagaa	cttttggggc	900
gggccccctc	ccacaataaa	gatgtctctc	gaccttcaaa	aaaaaaaaa	aaaaaaaagr	960
ksgggccggg	ccccantccc	ccc				983

<210> 46
 <211> 2421
 <212> DNA
 <213> Homo sapiens

<400> 46						
ccggctgate	gctgccgctc	cgccaataca	atagagccak	ccactaccag	cagcctggcc	60
ctcttctctc	ttctccagag	agaccaatcc	agccgaactc	ggggtttgcc	tgaggagaag	120
gaggaagtga	ccatggacac	aagtgaanaa	agacctgaaa	atgatgttcc	agaacctccc	180
atgcctattg	cagaccaagt	cagcaatgat	gaccgcccgg	agggcagtg	tgaagatgag	240
gagaagaaa	agagctcgct	gccccaaatca	ttcaagagga	agatctccgt	tgtctcagct	300
accaaggggg	tgccagctgg	aaacagtgac	acagaggggg	gccagcctgg	tcggaaacga	360
cgctggggag	ccagcacagc	caccacacag	aagaaacctt	ccatcagtat	caccactgaa	420
tcactaaaga	gcctcatccc	cgacatcaaa	ccctggcg	ggcaggaggc	tggtgtggat	480
cttcatgctg	atgactctcg	catctctgag	gatgagacag	agcgtaatgg	cgatgatggg	540
acccatgaca	aggggctgaa	aatatgccgg	acagtcactc	aggtagtacc	tgagagggc	600

10004560-100701

10004960.12001

caggagaatg	ggcagagggga	agaagaggaa	gaagagaagg	aacctgaagc	agaacctcct	560
gtacctcccc	aggtgtcagt	agaggtggcc	ttgccccac	ctgcagagca	tgaagtaaag	720
aaagtgcatt	taggagatac	cttaactcga	cgttccatta	gccagcagaa	gtccggagtt	780
tccattacca	ttgatgacct	agtccgaact	gcccaggtgc	cctccccacc	ccggggcaag	840
attagcaaca	ttgtccatat	ctccaatttg	gtccgtcctt	tcacttttagg	ccagctaaag	900
gagttgtttg	ggcgcacagg	aaccttgggt	gaagaggcct	tctggattga	caagatcaaa	960
tctcattgct	ttgtaacgta	ctcaacagta	gaggaagctg	ttgccacccg	cacagctctg	1020
cacgggggtca	aatggcccca	gtccaatccc	aaattccttt	gtgctgacta	tgccgagcaa	1080
gatgagctgg	attatcaccc	aggcctcttg	gtggaccgtc	cctctgaaac	taagacagag	1140
gagcagggaa	taccacggcc	cctgcacccc	ccacccccac	ccccgggtcca	gccaccacag	1200
cacccccggg	cagagcagcg	ggagcaggaa	cgggcagtg	gggaacagtg	ggcagaacgg	1260
gaacgggaaa	tggagcggcg	ggagcggact	cgatcagagc	gtgaatggga	tcgggacaaa	1320
gttcgagaag	ggccccgttc	ccgatcaagg	tcccgtracc	gccgccgcaa	ggaacgtgcg	1380
aagtctaaag	aaaagaagag	tgagaagaaa	gagaaagccc	aggaggaacc	acctgccaa	1440
ctgctggatg	accttttccg	aaagaccaag	gcagctccct	gcatctattg	gctccactg	1500
actgacagcc	agatcgttca	gaaagaggca	gagcggggccg	aacggggcaa	ggagcgggag	1560
aagcggcgaa	aggagcaaga	agaagaagag	caaaaggagc	gggagaagga	agccgagcgg	1620
gaacgggaacc	gacagctgga	gcgagagaaa	cgtcggggagc	acagtcggga	gagggacagg	1680
gagagagaga	gagaaaggga	gcggggacagg	ggggaccgag	atcgggtag	ggaaagggac	1740
cgagaacgag	gcagggaaa	ggatcgcagg	gacaccaagc	gccacagcag	aagccggagt	1800
cggagcacac	ctgtgcggga	ccgggggtggg	cgccgctagc	tgggaaaaca	ctagagctgc	1860
aggtaccagc	cactcggccc	caggggggtta	tggccacaga	gggataggca	cagtctccac	1920
caccttgag	ccaagggtct	ttcacatcac	ctatccctac	atacatacca	aatggaaaag	1980
tggccatcct	tttcccccca	aacacacccc	cttaacctat	ctcttgggac	ttagcccgac	2040
cctccctctc	atttcccatt	aagtctgaga	ggcaagagct	aggttaggca	aggaggtggt	2100
tggccagaga	tggggaacag	ccaggtgccc	cagtctctctg	atttttctctc	catcctgctt	2160
accacctccc	tgggtactta	cagccttctc	ttgggaacag	ccggggccag	gactgggtca	2220
cctatgagct	gaatcagcat	ctcctcctga	gtcccagggc	ccctgcagtt	cccagctctt	2280
tctgtcctgc	agcccttgcc	tctttccac	aggttccact	ttatatccac	cttttctctt	2340
tgttcaattt	ttatttttat	tttttttatt	attaaatgat	gtggtctatg	gaaaaaaaaa	2400
taaaaatctg	acttagtttt	a				2421

<210> 47
 <211> 840
 <212> DNA
 <213> Homo sapiens

<400> 47						
ctcaaactcc	tgagctgaag	cgatctacct	gcctcagcta	ggattacagg	tgtgagccac	60
cgcacccaac	ctcaataagc	ktatttgata	aaakatatgc	aagctccctt	tatkcacttt	120
tcattcagaa	tgttttagtaa	tttgtattgt	ttttcagatt	ttcagcccaa	tatatctccy	180
tgcccactgt	gtcactgtat	tctacctawa	catcatcacg	tgtttctgct	attggctgta	240
tgatggaaca	ctgcgggtca	ttttcctgaa	aactgccgat	agtgcataga	rtgctgggat	300
ggaaaccaga	arctttgaat	tcaagccttg	gttctgcctt	gtttttgctt	gggtggcctt	360
gagtcagcca	catacctttt	aaaatctcaa	tttattagaa	attattccaa	atcaaaaatca	420
aatgagaagg	tatatacaaa	agtgccttat	cccacaataa	actattcaag	agagagcaaa	480
ggagaggaca	tttactcaac	acctcctaaa	aggcagccag	tgaaattagg	catttttattt	540
aatcctctctg	gcaactctga	gagtaaagca	ttattaatcc	cattttggct	gtttaaagaa	600
attatttgca	ctgattcca	gctgtagttt	agyttcagaa	aaaaaaaaatcc	tgagatgtga	660
attcacagct	ttctgggttt	aaagcccaag	ctctatcaca	tcatgctatt	attgttacat	720
tactgctagt	tctatgaaaa	gaaataactaa	tttatgaaat	acatcttatc	caaaaaaaaaa	780
aaaaaaaaac	tgggaggggg	ggcccgtacc	caaatcgccg	gatagtgatc	gtaaaccaatc	840

<210> 48
 <211> 2432
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (593)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2049)

<223> n equals a,t,g, or c

<400> 48

ggcacgaggc	ccggaacgct	gaggaagggc	cctgcccgcc	ttccccggcg	cgccatggag	60
ccccggggcg	ttgcagaagc	cgtggagacg	ggtgaggagg	atgtgattat	ggaagctctg	120
cggtcataca	accaggagca	ctcccagagc	ttcacgtttg	atgatgcca	acaggaggac	180
cggaagagac	tggcggastg	ctgggtctccg	tcttggaaca	gggcttgcca	ccctcccacc	240
gtgtcatctg	gctgcagagt	gtccgaatcc	tgtcccggga	ccgcaactgc	ctggaccctg	300
tcaccagccg	ccagagcctg	caggcaytag	cctgytatgy	tgacatctct	gtctctgagg	360
ggtccgtccc	agagtcggca	gacatggatg	ttgtactgga	gtccctcaag	tgctctgca	420
acctcgtgct	cagcagccct	gtggcacaga	tgctggcagc	agaggcccg	ctagtggatg	480
agctcacaga	gcgtgtgggg	ctgtaccgtg	agaggagctt	ccccacgat	gtccagttct	540
ttgacttgcg	gtcctctctc	ctgctaacgg	cactccgcac	cgatgtgctg	canagctgtt	600
tcaggagctg	aaaggagtgc	gcctgctaac	tgacacactg	gagctgacgc	tgggggtgac	660
tcctgaaggg	aacccccac	ccacgctcct	tccttcccaa	gagactgagc	gggcatgga	720
gactctcaaa	gtgctcttca	acatcacctc	ggactccatc	aagggggagg	tggacgagga	780
agacgctgcc	ctttaccgac	acctggggac	ccttctccgg	cactgtgtga	tgatcgctac	840
tgctggagac	cgcacagagg	agttccacgg	ccacgcagta	ascctcctgg	ggaacttgcc	900
cctcaagtgt	ctggatgttc	tcctcacctc	ggagccacat	ggagactcca	cggagtcat	960
gggagtgaat	atggatgtga	ttcgtgcctc	cctcatcttc	ctagagaagc	gtttgcacaa	1020
gacacacagg	ctgaaggaga	gtgtagctcc	cgtgctgagc	gtgctgactg	aatgtgccc	1080
gatgcaccgc	ccagccagga	agttcctgaa	ggcccagggt	ctgccccctc	tgccggatgt	1140
gaggacacgg	cctgaggttg	gggagatgct	gcggaacaag	cttgtccgcc	tcatgacaca	1200
cctggacaca	gatgtgaaga	gggtggctgc	cgagttcttg	tttgtcctgt	gctctgagag	1260
tgtgccccga	ttcatcaagt	acacaggcta	tgggaatgct	gctggccttc	tggctgccag	1320
gggcctcatg	gcaggaggcg	gcccaggggc	agtactcaga	ggatgaggac	acagacacag	1380
atgagtacaa	ggaagccaaa	gccagcataa	accctgtgac	cgggagggtg	gaggagaagc	1440
cgcctaacc	tatggagggc	atgacagagg	agcagaagga	gcacgaggcc	atgaagctgg	1500
tgaccatggt	tgacaagctc	tcagggaaca	gagtcatcca	gccaatgggg	atgagtcctc	1560
ggggtcatct	tacgtccctg	caggatgcca	tgtgcgagac	tatggagcag	cagctctcct	1620
cggaccctga	ctcggaacct	gactgaggat	ggcagctctt	ctgctcccc	atcaggactg	1680
gtgctgcttc	cagagacttc	cttgggggtg	caacctgggg	aagccacatc	ccactggatc	1740
cacacccgcc	cccactttct	catcttagaa	accccttctc	ttgactcccg	ttctgttcat	1800
gatttgcttc	tgggtccagt	tctcatctct	ggactgcaac	ggtcttcttg	tgctagaact	1860
caggctcagc	ctcgaattcc	acagacgaag	tactttcttt	tgtctgcgcc	aagagggaatg	1920
tgttcagaag	ctgctgcctg	agggcagggc	ctacctgggc	acacagaaga	gcataatggga	1980
gggcaggggt	ttgggtgtgg	gtgcacacaa	agcaagcacc	atctgggatt	ggcacactgg	2040
cagagcmant	gtkttgggg	atgtgctgca	cttcccagg	agaaaacctg	tcagaacttt	2100
ccatacagat	atatcagaac	acaccccttc	aaggatgtga	tgctctgttg	ttctgtctct	2160
gtcttctcag	agcgcagggc	tggaggcctc	ctagacattc	tccttgggtc	tcgttcagct	2220
gcccactgta	gtatccacag	tgcccagatt	ctcgtgtggt	ttggcaatta	aacctccttc	2280
ctactggttt	agactacact	tacaacaagg	aaaatgcccc	tcgtgtgacc	atagatttgag	2340
atttatacca	cataccacac	atagccacag	aaacatcatc	ttgaaataaa	gaagagtttt	2400
ggacaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa			2432

<210> 49

<211> 1742

10004860-120701

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (570)
<223> n equals a,t,g, or c

<400> 49

gtcctgcagg	agctgcacgc	ggccgaggtg	cgcangaaca	aggagcagcg	agaagagatg	60
tcggggctaag	ggccccgsac	grgsggcgcc	catcctgcga	cggaacacgt	tcgggttttg	120
gtttttgtttc	gttcacctct	gtctagatgc	aactttttgtt	cctcctcccc	caccccagcc	180
cccagcttca	tgtttctctt	ccgcactcag	ccgccctgcc	ctgtcctcgt	ggtgagtcgc	240
tgaccacggc	ttccccctgca	ggagccggcg	ggcgtgraga	cgcggtccct	cgggtgcagac	300
accaggccgg	gcgcggtctg	gtcccccg	ggcctgtga	gagaggtggy	ggtgaccgtg	360
gtaaacccag	ggcggtggcg	tgggatcrcc	ggtccttacg	ctgggctgtc	tggtcagcac	420
gtgcaggtca	gggcaggtcc	tctgagccgg	cgcccttgcc	cagcaggcga	ggctacagta	480
cctgctgtct	ttccaggggg	aaggggctcc	ccatgaggra	ggggcgacgg	gggagggggg	540
tgatggtgcc	tgggaagcct	gcktgtgcan	ccggtgcttg	ttgaactggc	aggcggtggt	600
gtgggggctg	cagcttttct	taatgtggtt	gcacaggggt	cctctragac	cacctggcgt	660
gaggtggaca	ccctgggcct	tcctggaagc	ctgcagttgg	gggcctgccc	tgagtctgct	720
ggggagtggg	cattctctgc	cagggaccca	tgagcaggct	gcatggtcta	gaggttgtgg	780
gcagcatgga	cagtccccca	ctcagaagtg	caagagttcc	aaagagcctc	tggcccaggc	840
ccctccgtgg	gacagccccg	ccgcccctcc	ccaccagggc	tttgcatatg	tccttgaaag	900
acccacccta	gagccctttg	gagtgtctgc	ccctcctgtg	ccctctgccc	tggtggaagc	960
ggcascacaa	gtcctcctca	gggagcccca	agggggatgt	tktgggaccg	ctgcccacag	1020
atccaggtgt	tggaaagggca	gcgggtaagg	ttcccaagcc	agccccaaca	cccttcccac	1080
ttggcaccca	gagggggctg	tgggtggagg	cctgactcca	ggcctctcct	gcccacaccc	1140
tctgggctga	gttctctctt	tcccttgga	gcccagtgt	ggccttgga	gacggtcagc	1200
tggaggatgg	cggtggggga	ggctgtcttt	gtaccactgc	agcatcccc	acttctccac	1260
ggaagcccca	tcccaaagct	gctgcctggc	cccttgctgt	aaagtgtgaa	ggggcgggct	1320
gagttctctt	aggaccagga	gccaggggcc	tcaacttcca	tcctgcggga	ggccttgccc	1380
gggcactgcc	agtgtcttcc	agagccacac	ccagggaacca	cgaggagatc	ctgaccctcg	1440
caggggtcag	gggtcagcag	ggacccactg	ccccatctcc	ctctccccac	caagacagcc	1500
ccagaaggag	cagccagctg	ggatgggaac	ccaaggctgt	ccacatctgg	cttttgtggg	1560
actcagaaag	ggaagcagaa	ctgagggctg	ggatattcct	catggtggca	gcgctcatag	1620
cgaaagccta	ctgtaatatg	cacccatctc	atccacgtag	taaaagtgaac	ttaaaaaatc	1680
aatcaaatga	acaattaaat	aaacacctgt	gtgttttaaga	aaaaaaaaaa	aaaaaaaaactg	1740
cg						1742

<210> 50
<211> 1487
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1486)
<223> n equals a,t,g, or c

<400> 50

ggcacgagcc	tccgcgaact	gtggagtcgg	cggagggctg	gaatcagcgt	gggctccagg	60
------------	------------	------------	------------	------------	------------	----

10004350-120701

tcgctggcag	cggggtggca	gaactcttcc	gaggctcctt	gggaagaagc	tacacccgag	120
ggagccggat	gggcctcgaa	aacctggccc	gctctggttc	tgtaccattg	caaggggaac	180
cgtaaaactga	gcttttctaa	cgtgggtttc	tgccaagtac	ttttccagct	gcccccttcc	240
ccccagcaca	caggagagcc	tctgtgtagc	cagcgcttga	cagtcgttag	gtaggttgta	300
ctgtgtaggg	aggagctcaa	gatcatgaat	ggttgtcaca	ggagaaagcg	gttgcattctt	360
tgcaaaacta	tatacctgct	gtgggtttgtg	ttttcttttc	tgctgagtaa	tgaagttgta	420
agttcacact	ggcacattct	cagggtctgtg	cagattatctt	gcactttatt	tcataggtgr	480
ataagtgctt	tttagctttc	tttgtatatt	gagttgcttt	tgaattgctt	cccatatttt	540
tatttcatac	aaactgaaca	attgtggccc	ctctatttta	tttataaagg	ttcagtgtat	600
ctttgcctgc	ctacatcaat	ctgcaaggga	gttgcagaaa	gcctcatgtt	catcgagccg	660
tgagtcacaa	ccaatttcta	agctgtttata	acaaaaaagt	gtttgctttt	tttcacaagt	720
aactttaaaa	gtgtagttta	gaaagaaaac	attttcaata	aaaagacact	acattaatcc	780
tggatgcttg	caaatcctaa	aatmtattcc	tcctctagcg	ttgcacagct	ctgtgttgta	840
tacacagact	agcttttaaaa	tttgtcacat	accactttac	ctttactttt	atgtatcatt	900
cccccgactt	ccttactgca	ggtgtgggca	agaaaacttt	tcctttaaca	cttttcaaca	960
gcgggcataa	aattctgcag	ctgaggtctt	gaagaatgca	gatgggtaca	gtatgtgttg	1020
gagctcacag	tgtgtattga	ctaacctagt	tccttttttg	ctttttttgg	tattgtcttg	1080
ttaaaagtga	ctcccaggta	gcaactctct	tttttaaggg	tgggaacgaa	agggacgtag	1140
gaagaataga	tctagattat	ttaacagctc	tcgatagagt	ttgaaagctt	tcttcttcat	1200
tcaatttttg	gcaaaatact	gcctctgcat	ttgttcataa	caaaaagatt	agattaataa	1260
gtagcttttg	ttggtggaaa	ttaccagctc	tataagtcac	ccttgggtgg	tcatggacct	1320
ctgattagct	tgggttttgc	agtctcattg	ccacatgtat	atgtggagcc	aatggccttt	1380
tgggtgctcag	ctgtttacgt	ctgactcctt	gacttctttg	gtacagtgat	ggagtcagat	1440
ctcattaagt	gtgattctcc	atggatataa	ccagccccaa	aaaaaang		1487

<210> 51

<211> 1328

<212> DNA

<213> Homo sapiens

<400> 51

ggcacgagct	cgtgccgaat	tgggcacgag	agaagatttg	agaagccag	atccagcttc	60
cctgcgggct	gcttcttgtg	gggaagggaa	aaagaggaag	gcctgtaaga	actgcacctg	120
tggccttgcc	gaagaactgg	aaaaagagaa	gtcaagggaa	cagatgagct	cccaacccaa	180
gtcagcttgt	ggaaactgct	acctgggcga	tgccttcgcg	tgtgccagct	gcccccttcc	240
tgggatggca	gccttcaaac	ctggggaaaa	ggtgcttctg	agtgatagca	atcttcatga	300
tgcctaggag	gttctcgaca	tgggacctat	ctgctcctcc	agccaactcc	tgtccctcac	360
atccccaccat	ggtggctcct	cccacctcct	ctggatttgt	tcactctgag	atctgtttgc	420
agagtgggtg	cttagcagac	agagtgaagc	tggctggggg	gcacagtggg	gtgtagtgtc	480
gctgtgtatc	aaaagaccaa	ggtattatgg	gaactgggtt	cagaatggga	tgggtttcct	540
caactcatgt	taagagaagg	gagtgtgtcc	tgaagaagcc	cttcttctga	tgttaaaatg	600
ctgaccagaa	cgctcttgag	cccaggcatc	gttgagcatt	aacactctgt	gacagagctg	660
cagacccctg	ccttgagtct	catctcagca	atgctgccac	cctcttgtct	ttcagagttg	720
ttagtttact	ccattctttg	tgacacgagt	caagtggctc	acaacctcct	cagggcacca	780
gaggactcac	tcactggttg	ctgtgatgat	atccagtgtc	cctctgcccc	cttccatccc	840
caaccacatt	tgactgtagc	attgcatctg	tgtcctgttg	tcatttatgt	taaccttcag	900
gtattaaact	tgctgcatac	cttgacatat	cttgagattc	tgcattgtct	gtaaaagagag	960
gggatgtgca	tttgtgtgtg	atgttggata	gtcatccacg	ctcagtttgg	accattggag	1020
gaacttagtg	tcacgcacaa	atggggctat	tcctacgctt	agaatagggc	ttgtctgccc	1080
actttagaag	agtccctagg	tgggtgagcat	ttagagggaa	gcagggcaga	actctgaacg	1140
acaatacgtc	tctctgagca	gagacccctt	tgttcttgtt	atccacccat	atggacttgg	1200
aatcaatctt	gccaaatatt	tggagagatt	gtgtggattt	aagagacctg	gattttttata	1260
ttttaccagt	aaataaaaagt	tttcattgat	atctgtcctt	gaaaaaaaaa	aaaaaaaaaa	1320
aaactcga						1328

<210> 52

T00450.120701

<211> 1856
 <212> DNA
 <213> Homo sapiens

<400> 52
 gaattcggca cgagctctgc aacattgcaa atgaacttgc agccgaggggt tccgctgccc 60
 cctagattaa attccccggg ctgaaactga gttgcagatt tacaatatca tatttttaaat 120
 tgctgtcttc aattaaacca tttatgacca taactaattt tcaggatgtc gatgcatgct 180
 tttccaggcc ttccttcttt gtacaaaagt aaatgtocat aaagcgtttc acttatattc 240
 ttcaaacatg atgctaattt aaattaatta ctctctatga tatgttatta ttctatgat 300
 tttgccactg ttattagttc tctcaaaaat acatctaggg aagaggatta ttttaagtra 360
 tttgattatc tttctatctc ttttatttat ttctcattta ctttaagaaat tcgttccatt 420
 ggttgggcatt gatacagtaa atttgtaa atgaggagcaa tataaaaaat ctaaattact 480
 tgtgcttaat gactgtagca gaatsccttt tctctaaatc agattgtctt tcttgcagtt 540
 tagtttgata gatttgcaag ctatgctgct tccatgaagt tagctgcgct ggtaggaacg 600
 caggcttctt tgtctctggt tgtagcttgc atgatcgccc cattaggcag acaacgtagc 660
 cggagatcac aaatcaggcc ctgtgtgtag ttgctagtgt gtggagggtg agagagggtg 720
 gcagaaactg acctcactgg gcaagggtgg ccatggacct gattctttaa tgcactctat 780
 gtgttcagga agccacaggc catatttgac tctgagaaag aaaaacagag gaaaaacccc 840
 acaaagtata acaacccctt aagatacatc tattttaaag tgaaattaat ttttcagttt 900
 ataccattgg ccaattacaa gataaaaatg ttcaatttct ttaagaatcc tttgttgact 960
 tgtcttttca tctcttgcta tttatatattg tcaactgttag tcaacaaagt cttatttgct 1020
 gaggaaggac tttgctgcac ttactgtacc acatcaaaca ctggggagggt tgggtgttaa 1080
 ctttttaaaa aatgttattc tgattataac aataatattg gcttttttca tgaaaagagc 1140
 gccaccttgc aagggttagt gagatttatg gaagttgaat acctaacgag gaattgctgc 1200
 tagctccaaa aatttgcgaa gcaaaagcta gccccaattg gtttggaggt ttgaaactga 1260
 ttaacagatt tgcatttgaa gtgactccag acattagggtc cagacattag ttaaaaaatag 1320
 aaagaggaat aaagacatct yttctctcta gaaaagataa caccrcaatt aataatcctt 1380
 cccactttca ttgagatcag ctgtctgat aacctgatat gagtgtgata atgataaaca 1440
 tgataatagt ggtacttttg taattttgct ggtgcattta agaagatagt aaakgatgag 1500
 ttcayccttt ctycgaacat ycctatycct agatgtagt ttacctcaaat tgggaattat 1560
 aactgtccta atttttgttg tgtaccctga tgcccccttt gctttaatac ccacagtgtg 1620
 acaattaaat atcacactat gacatatgat ttaagtagga tatttttaaag ataaatttta 1680
 ggggtaaaatg tttacttcaa aatgactcca tatttcaa atctgttttag actgtgaagg 1740
 ccaaataat ttttaagaaa catttgaaga gtagtgtgtt tgcatttgtg aataatctta 1800
 ctcacagcaa gtaaacgtaa taaaagccaa catttaagcc aaaaaaaaaa aaaaaa 1856

<210> 53
 <211> 1558
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1514)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1551)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1556)
 <223> n equals a,t,g, or c

<400> 53

tgggtatcca	ttcctgnaat	tactttactt	aggataatgg	cctccagctc	cgtccaagtt	60
gctgcaaaaag	gtattatttc	gttccttttt	gtggctgagt	agtattccat	gggtgatata	120
taccacatttt	tctttatcca	ctcattgctt	gatgggcagt	taggttggtt	ccacatcttt	180
gcaattgtga	gttgtgctgc	tccagatata	atctttaact	cctttgcctt	ctccacatac	240
atttccaagt	cctgttcatt	ctacctcaa	aatgtatctt	gtatccattc	atctctctcc	300
atcttcaatc	tatttcaatg	ccccatcatc	tcttgcatgg	aggagtgtaa	taattggcta	360
actggcctgt	tcttacattt	taaaatcaaa	agatgtgaca	ggtgaaatgc	ctatttcagt	420
gtccattgat	ggttctgctt	acacaccacc	tggctgcctg	gtgtcgcagt	ggcagagttg	480
agcagtgtga	aaaagactgc	ttggcccttt	acagggaaaag	caggtccact	gtggcctgtg	540
aggacgagag	ctctgggcag	gctcggacac	tggcagaccc	tggtcctggc	tggccaaggc	600
agcaggggat	gtgtttcggg	tcactcacag	ggctcagcac	cactcctcat	ggcttcctta	660
ctgtttcggc	agaggctgac	ccgcggctga	ttgagtcctt	ctcccagatg	ctgtccatgg	720
gcttctctga	tgaaggcggc	tggctcacca	ggctcctgca	gaccaagaac	tatgacatcg	780
gagcggctct	ggacaccatc	cagtattcaa	agcatccccc	gccgttgtga	ccacttttgc	840
ccacctcttc	tgcgtgcccc	tcttctgtct	catagttgtg	ttaagcttgc	gtagaattgc	900
aggctctctg	acgggccagt	ttctctgcct	tcttcaggga	tcaggggtta	gggtgcaaga	960
agccatttag	ggcagcaaaa	caagtacat	gaagggaggg	tccctgtgtg	tgtgtgtgct	1020
gatgtttcct	gggtgccttg	gctccttgca	gcagggctgg	gcctgcgaga	cccaaggctc	1080
actgcagcgc	gctcctgacc	cctccttgca	ggggctacgt	tagcagccca	gcacatagct	1140
tgcctaattg	ctttcacttt	ctcttttggt	ttaaataact	cataggtccc	tgacatttag	1200
ttgattatct	tctgtctacg	acctggtaca	ctctgatttt	agataaagta	agcctaggtg	1260
ttgtcagcag	gcaggctggg	gaggccagtg	ttgtgggctt	cctgctggga	ctgagaaggc	1320
tcacgaaggg	catccgcaat	gttggtttca	ctgagagctg	cctcctgggt	tcttcaccac	1380
tgtagttctc	tcattttcaa	accatcagct	gcttttaaaa	taagatctct	ttgtagccat	1440
cctgttaaat	ttgtaaacaa	tctaattaaa	tggcatcagc	actttaacca	aaaaaaaaaa	1500
aaaaaaaaaa	aaanaaaaaa	aaaagggggc	cgctctagag	gtccaagtta	ngacgnng	1558

<210> 54
 <211> 948
 <212> DNA
 <213> Homo sapiens

<400> 54

taaaaatcat	gctctgtacc	atcctcaccg	tagtcatcat	catcgccgcg	cagaccacga	60
gaactactgg	gatccctaaa	aacgcccttg	gtccggcccc	actctgcgcc	cctcgatctc	120
ccaggctctt	tctgcagwca	taccgcggac	ccaatgggcg	ccttgccacac	ccgtttcttg	180
ggccgtcaga	cttgatata	tcgtaaaact	cgccctccacg	gaacgtctcg	cctkgcgagc	240
aagmtcggaa	tccagttcct	caggaacccc	tccaaaaccc	acacccccag	ggacgcgcgt	300
ttccggggatc	ccggscaaac	gccggaccct	cagtgcgtcc	aggccccctc	accctcaaag	360
tgtagcgccc	ccaaccgagc	aacctcggtt	tggtccttaa	aaccccgctt	cctctataag	420
caccgcccc	gctctgacaa	aaccccgctt	ccaggtcggc	aggctccgct	tcttttcttc	480
tccgcggggg	gattcagtc	agtgattggg	tttgtggctc	caggccctcg	ccacagacgg	540
acagaccctt	ccctttcttc	cggcaaaagg	accgagccct	ggggtagtaa	ggsccccaca	600
ctcctgtttt	ttgcaagtac	atttttgtcc	ytctccacc	caggtatctg	cctattttct	660
tgctaattccc	agaacctttc	cttttgcttt	ttttaaggac	atttgggaag	ttcctgggtg	720
aggaccttcc	tccctgggat	aagaaacctg	cctgtaaacg	ctctgtaaat	actcccttcc	780
acccatccca	gcccctgggc	agccgggcag	aagggaatcc	aggctatgga	cctcccaagt	840
ccccgctccc	cgctccccct	ggcgcccccg	ccttggtctg	atctgtgtgt	gagtggtgtg	900
gaacttctga	aagacaatat	taaagagact	tagttgaaaa	aaaaaaaa		948

10004550.120701

<210>	56
<211>	1603
<212>	DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (788)

<223> n equals a,t,g, or c

<400> 56

ggctcgaccca	cgcgctccggc	ccgcccggctc	cgagagcggtc	ctgccttccc	gagcgcggga	60
ccgcgccttg	ggggaggagg	gcgaacgacg	cgcgatggc	tccgcgggca	ctcccgggt	120
ccgcgcctct	agccgctgct	gtcttcgtgg	gagggcccg	gagttcgccg	ctggtggctc	180
cggacaatgg	gagcagccgc	acattgcact	ccagaacaga	gacgaccccg	tcgcccagca	240
acgatactgg	gaatggacac	ccagaatata	ttgcatacgc	gcttgtccct	gtgttcttta	300
tcatgggtct	ctttggcgtc	ctcatttngc	camctngctt	naagaagaaa	ggctatcggt	360
gtacaacaga	agcagagcaa	gatatcgaag	aagaaaaagg	ttgaaaagwt	agrattgaat	420
gacagtgtga	atgaaaacag	tgacactggt	gggcaaatcg	tccactacat	catgaaaaat	480
gaagcgaatg	ctgatgtytt	aaaggcgatg	gtagcagata	acagcctgta	tgatcctgaa	540
agccccgtga	ccccagcac	accagggagc	ccgccagtga	gtcctgggct	ttgtcaccag	600
gggggacgcc	aggggaagcac	gtctgtggcc	atcatctgca	tacgggtggc	ggtgtwgtcg	660
agagggatgt	gtgtcatcgg	tgtaggcaca	agcgggtggc	ctttataaag	cccactaaca	720
agtcagagag	gagcagacca	cggcgccaaag	gcgaggtcac	ggtcctttct	gttggcagat	780
ttagagtnac	aaaagtggag	cacaagtcaa	accagaagga	acggagaagc	ctgatgtctg	840
ttagtggggc	tgaaacctgc	aatggggagg	tgccggcaac	acctgtgaag	agagaacgca	900
gtggcacaga	gtagcaggtg	agccgtgggt	ttggtgacat	tgggggcaga	gtggtgcagg	960
gtgaggagaa	ggtacttggg	gcctcccagg	tgctgtggca	gcataggaat	ggtatttgac	1020
aggggaagtgg	gagagctttc	cttgaccag	gaagactgag	ggggactgaa	catgattact	1080
tgcttgccca	gagcttcttg	taaagaagtc	acaaacttag	tgctccagg	ggcttggctg	1140
tgtgataatg	aggatagagg	attacttgtg	aggcaatgtg	gcatggtggg	gattgtggca	1200
aactagaatt	cacatcacc	accatatagg	gcttgcatta	ccacgaggca	gaaagcacct	1260
agtgttgctg	catcttctta	cgcaaaaaag	acaaaatcca	gacttctaaa	atgtaaaatc	1320
actgattttc	gatattggca	gcttactttt	tttttttaaa	caaccatgca	ggccaaatga	1380
cttgtaatct	tgtcaccatt	tttaggtaaa	ctgtgacttg	aaaaagtctg	gagcaaacaa	1440
accaatgctt	tttcctttta	ttctgttggr	aaccagtttt	ctttgtgtca	cagtttggaa	1500
acctcaatac	gaatattttc	cttcccacca	aatattttga	ggcaattgaa	aagccacagt	1560
gattttattc	ttgatttggc	aatttttaatt	ttgcaagaca	att		1603

<210> 57

<211> 1052

<212> DNA

<213> Homo sapiens

<220>

10004360.150701

<221> SITE
 <222> (250)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1051)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1052)
 <223> n equals a,t,g, or c

<400> 57
 tacagctcag gatgcctgta acattgtcat ctctgggctt ctgggtcctg cttagcctgc 60
 tttttccctg gaggactgac cagggatgcg gccagcaac atgttactaa atcatactct 120
 cctccctacc tttccagac ctctcactcc tgcctgggtg tccaaccctg tctgtggcca 180
 gagtatacat tttggaacct ctctgaggcc atcctgcagt tccagatgaa ccatagcgtg 240
 cttcagcagn aaggcccagag acatgtatgc agaggagcgg aagaggcagc agctggagag 300
 ggaccaggct acagtgcacag agcagctgct gcgagagggg ctccaagcca gtggggacgc 360
 ccagctccga aggacacgct tgcacaaact ctcgggccaga cgggaagagc gagtccaagg 420
 ctctctgcag gccttggaac tcaagcgagc tgactggctg gcccgctctg gcaactgcac 480
 agcctgaatg aggctggcca cctgccactt tgccctgccc tctgcctcca gggctccmct 540
 myccttcctt ttcttggtga aaggcacctc ctttctgat aatgaatggt gttccctttg 600
 cttggctggg gagcccccca ggccagggtt gctggccata gatacccttg ggctgcctgr 660
 gacaggctcc tgaggaggat tgagggtgaa agtctccac gagtacacta aacctaggtc 720
 tgggtaccaa taggggtttg agagcaaagg gccacaactc atcagctgcc tgtctcttag 780
 atgcactttc tttttccacc agcacatcct tcaacacaca gaatttcagg gaagagttct 840
 ccccaaaacc ctagctcttt acccttccat tttagccttc caccagctt ccacaaaaga 900
 tttggctcta ccttggtatc gctagtaaatt aactaatagg caggcagtta tttgggtaag 960
 gaaaaaaggg gtgggagaga cagaaaattt gccactgct gctcctcccc ttggstytc 1020
 acctgggatt tgctattgaa tctctaccct nn 1052

<210> 58
 <211> 814
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (6)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (32)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (751)

10004360 "120701"

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (770)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (784)

<223> n equals a,t,g, or c

<400> 58

acncgntggc	ggccgctcta	gaactagggg	ancccccggg	ctgcaggaat	tcggcacgag	60
catagacttt	taaactggta	cggttcttag	agatgggtcct	tggccttctg	ttgttggtgt	120
kgtttttttc	tttttcttct	tctcttcttc	cttcttcttc	tcttctcctt	ctttcttctt	180
ttttttttca	gagtcttgct	ctgtcaccaa	gactggagtg	aagtgatgtg	atctcggctt	240
actgcaacct	gggaggcaga	ggttgcagtg	agtcgagatg	gtgccattgc	tctcgtttgg	300
gcaacaagag	tgaaactctt	gtctcaaaaa	aaaaaaaaaa	atgagggtta	agacagtttt	360
gtcattactg	gtgggatctg	gtcacacaag	atagcattaa	acgtgacatg	gcacataaaa	420
ttgggttaaaa	aattttgttt	tttaattacg	taatgtaaaa	gccaacaaaa	cacttttatgc	480
aagattggaa	tgtatcttca	aattcagatt	taataaacat	gtaaagatcc	tctgtatata	540
aaagttgtat	ttaatccctt	gtgccccaa	aatgctataa	aagatcccaa	gaatgtttatc	600
tatgaaaaga	tagcaatagg	gaatggtgaa	caaataattt	aatttgccaa	ttctaaaaaa	660
catggactta	aaccccatga	aaacttggtt	ccatagtttt	aactgtttta	tggttccaat	720
acaaaaccag	agtggtttac	attccacaat	naccaaattt	gcaccaatn	ttggggtaat	780
tttnggtatt	tgccatggga	tactattcat	tttt			814

<210> 59

<211> 1215

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (345)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1024)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1098)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1186)

<223> n equals a,t,g, or c

<400> 59

agagggaagt	ttttgccaa	cctgttctct	ggactaacgc	catccaggct	gggaggggaa	60
gagtgtcttg	ctacactcgt	ccccctctg	cctcatcttc	cttctcagcc	ttgggttcctg	120
atgggaacag	aatggagggc	ctgagaacat	actttctaaa	tgcccttgac	ccaggaaccg	180

10004860-120701

attatctata	tttgttccca	ttttccttca	ccgtgacatt	ccagcattgt	ctgactgtga	240
ggtgggcctt	tgagagcctc	cagggttcctc	aaaacaggcc	tgagcgatgg	gcatcacacc	300
ctctgcctac	ccacrtgcct	gcttacctgc	cagataacca	agtgnagatg	tctgcgagtg	360
gctagttttc	acattcttac	tagtgtttgg	yticaccttg	ggcaaaggcc	ccctctaggc	420
cttgccccac	ctccatcaaa	cgcagacact	gtagtccagc	ctcagyaata	taggaggcaa	480
taatctttta	acagtgtttt	gcaaacaac	aaaaagagaa	aaatcccagc	caggggaact	540
cgccacctgc	ccacgctagt	tccatccacg	ctcaagaccc	gcccttagac	caggcaggca	600
aaggccccca	tcacactcgg	ccactagtgg	ggtcctgagg	ccaagaaaga	aaccagaccc	660
tgtatgacaa	gttgggktct	ttccagaaca	cgacagaaac	agggggggcc	ccttggttaat	720
gccactccat	actccagaag	cattattcct	tatttgggac	agccaagggc	agattcacag	780
gttattgtag	gaataaagac	tagttttacaa	aggaraaaga	gsccttgga	ttcccmagga	840
aaggctcagg	tagggctcct	gtacccattc	tgttccacca	ctgtttgatc	tctctggcct	900
cccaccagga	atgccgtttc	ctttttatgg	atctgttggg	aaccagagag	aatcaacaga	960
tcaatgacat	aggatccgaa	gtgcaatgat	agtcacttct	agtttggcat	ttcaciaaact	1020
ctgnacagca	aggtattggt	aggttactca	atttcaaaag	ggcccatg	ccaaatatgt	1080
ttaggaaccg	ctgtttgnat	ttcttttttt	ggagacgcat	tgtatataat	atatgtcaaa	1140
ggctttcgga	attcctgcag	gaaagaaatc	agctttgtta	aatccnaaaa	aaaaaaaaaa	1200
aaaaaaaaatag	actcg					1215

<210> 60
 <211> 478
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (410)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (476)
 <223> n equals a,t,g, or c

<400> 60						
atttcttatg	acatgggggt	ttgaattggt	tggcaaatgt	ttaattttta	tatccataat	60
cagtgaggtc	ctgctggctg	taatcattaa	ttgtgaaatc	taaggagctt	agttcatggc	120
tctagaattt	cacagaaaaa	tygmtatga	tacgagcatt	aagtttattt	cttctgatct	180
ttgatgcagc	tttgttcagt	ttatctgttt	ttgtatttat	tggtcatact	cttcccatgc	240
caaaagggac	tgggtctacat	agctgcgcta	aacacctgat	caaatcacta	aaagaaaatg	300
tgttacctct	aatgaattat	cctgattgta	agttaaaaat	caatatttcc	ccgtagttag	360
gtttgctttt	taaaaagaak	kettaaaaaa	aaaaaaaaaa	aaacgagtn	aagaaaagga	420
agcaagctca	ggtaaggtgc	acacattggg	ctaaggaagc	tagagcctgt	ggagangc	478

<210> 61
 <211> 618
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> n equals a,t,g, or c

<220>
 <221> SITE

<222> (39)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (548)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (560)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (562)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (584)
 <223> n equals a,t,g, or c

<400> 61
 tatgaccttg ataaccocaa gttngaaatt aaccttcant aaaggggaaca aaagctggag 60
 ttcgcgcgct tgcagttcga cactagtggg tcccaaagaa ttcggcacga gtcataatga 120
 gctactagggt aagccttctg ggactttcag atattttggg gaagattgat ttttggtctt 180
 acatgctgtg gacccttggc catcaaatgg tatggggaag ctcacccgctc tgtctgtgat 240
 ggtcatgtca gtcaggcgctc ttttttagtat ttactgggtg ctcagtgactg tgccagatgc 300
 tgtcggggagc cgtggttgga tggaggagga gtgctccaga ggactctgct gtgtggcagg 360
 ccagcataaa caagccaagg ggaaaaggca ggcatggaat aaaggggggag aataccagtg 420
 tgtgacttac tgctgactgt gtggattagc ctatcagcag taatcaagca gggcggaggg 480
 cattatcttt gagccagaag agtgagcact ggscggaggg tggagcatca agaggggggtg 540
 taggaccnca aggcttcttn cnggggagac aacgtcaata agcngtcagt agtcaccgac 600
 agttttggga agcaaggg 618

<210> 62
 <211> 751
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (158)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (159)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (202)
 <223> n equals a,t,g, or c

<400> 62

10004350 "100701

tcgacccacg	cgcccgagga	gctggacttc	tgagacagcc	attctccttg	catagcactg	60
tctgctgcta	cagctcatag	aagtcaacaa	ttttcttcaa	cactggtagg	cagcctctaa	120
atggccctga	tcaccctcac	ctcctgccat	tcacaccnnt	gtaaaattcc	acccctggac	180
ctagtgactc	acttctaaca	angagaatac	agcaaaagta	acatcgcttc	tgagggtgagg	240
ctacaaggag	actacgatgc	ctgccttggt	cacccttctc	ctgctctttc	cattgctccc	300
tctgatggaa	gccagttgcc	atgtgatgag	gtgccctatg	gagaggccca	cgtgacaagg	360
tattgtaaaa	agcctctgac	caatagccat	ctagaaacgg	aggcccagtc	cagcagcctc	420
tgagatgaat	cctgcccaacc	tgagcttgga	gacagattct	ctccctatec	tgcttgggga	480
tgatcacagc	caccaccaac	accttcaactg	cctgggtgaga	ggccaagcca	gtgaacccaa	540
ggtaaactgg	acagaatcct	gaccacaga	aactgagata	atgtttgtta	ttttaagctg	600
ctcagtttgt	tacagagcaa	tagataacta	actcaaacac	cataaaattc	taatatttta	660
ttctatcaca	caaaccaggt	aataccaagt	aaatgccatt	actatacaca	tatttttgta	720
acacaattac	atgtgatttt	ttaagaaggc	t			751

<210> 63
 <211> 780
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (738)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (776)
 <223> n equals a,t,g, or c

<400> 63	
cngncagtc	60
cngtccccga	
ttcccggttc	
gacccacg	
tcggggttg	
caactcctga	
ggcctgcatg	120
ggtgacttca	
catttttcta	
octctccttc	
taatctcttc	
tagagcacct	
gctatcccca	180
acttctagac	
ctgctccaaa	
ctagtgacta	
ggatagaatt	
tgatccccta	
actcactgtc	240
tgcggtgctc	
attgctgcta	
acagcattgc	
ctgtgctctc	
ctctcagggg	
cagcatgcta	300
acggggcgac	
gtcctaattc	
aactgggaga	
agcctcagtg	
gtggaattcc	
aggcactgtg	360
actgtcaagc	
tggcaagggc	
caggattggg	
ggaatggagc	
tggggcttag	
ctgggagggtg	420
gtctgaagca	
gacagggaat	
gggagaggag	
gatgggaagt	
agacagtggc	
tggtatggct	480
ctgaggctcc	
ctggggcctg	
ctcaagctcc	
tctgtctcct	
tgctgttttc	
tgatgatattg	540
ggggccttggg	
agtccttttg	
tctcatctg	
agactgaaat	
gtggggatcc	
aggatggcct	600
tccttcctct	
taccttccct	
ccctcagcct	
gcaacctcta	
tcctggaacc	
tgctctccct	660
ttctcccca	
ctatgcatct	
gttgtctgct	
cctctgcaaa	
ggccagccag	
cttgggagca	720
gcagagaaat	
aaacagcatt	
tctgatgcc	
aaaaaaaaa	
aaaaaaaaa	

10004350-120701

gcggccgaaa gcttatncc ctttaagtaa ggggttaatt tttagcttgg gcactnggcc

780

<210> 64
 <211> 588
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (565)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (566)
 <223> n equals a,t,g, or c

<400> 64
 ttccgaatta atcgactcac tataggaawt gccgtcgcca tgacccgcgg taaccagcgt 60
 gagctcgccc gccagaagaa tatgaaaaag cagagcgact cggttaaggg aaagcgccga 120
 gatgacgggc tttctgctgc cgcccgaag cagaaggact cggagatcat gcagcagaag 180
 cagaaaaagg caaacgagaa gaaggaggaa cccaagtagc tttgtggctt cgtgtccaac 240
 cctcttgccc ttgcctgtg tgccctggagc cagtcccacc acgctcgctt ttcctctgt 300
 agtgctcaca ggtcccagca ccgatggcat tccctttgcc ctgagtctgc agcgggtccc 360
 ttttgtgctt cttcccccctc aggtagcctc tctccccctg ggccactccc gggggtgagg 420
 gggttacccc ttccagtggt tttttattcc tgtggggctc accccaaagt attaaaagta 480
 gctttgtaat tccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
 aaaaaaaaaa aaaaaaaaaa aaaanncggg ggggggcccc cccccccc 588

<210> 65
 <211> 945
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (15)
 <223> n equals a,t,g, or c

<400> 65
 naatacgatc atnanagggc gattgggtac gggccccccc tcgagttttt tttttttttt 60
 tttggcaagt gagaagatgc agataggcaa aaagraaaaa aaagagatca cacagagatt 120
 cactgttaac ctttgggtgta taataaaatc agacactttc ctttgcatat tgatcacatag 180
 aaatgtacaa ataaagtgt catatatata cacatatatg tatacactgt tttgcaactc 240
 gttattttca ctttgcaata tacaatgagc atttttccat gcaaatgaat gagacctctt 300
 attaatgaa taagattggg tcaaaagatg agatgttgac aagagtcata tgtaaatctc 360

10004860-10004864

[illegible]

```
<220>
<221> SITE
<222> (674)
<223> n equals a,t,g, or c
```

<400>							66	
accacgcgct	cgggtcctct	tcttcagcac	atgccaaagc	tgttcctcac	ggcctgtgag			60
acaagagcat	cttgggatgta	ggacaatgga	agagttagat	gccttatagg	aggaactgga			120
acgctccacc	cttcaggaca	gtgatgaata	ttccaacca	gtcctctctc	ccttg gatca			180
gcattccaga	aaggagacta	accttgatga	gacttcggag	atcctttcta	ttcaggataa			240
cacaagtccc	ttgccggcg	antcgtgtat	actaccaata	tccaggagct	caatgtctac			300
agtgaagccc	aagagccaaa	ggaatcacca	ccaccttcta	aaacgtcagc	agctgctcag			360
ttggatgagc	tcatggctca	cctgactgag	atgcaggcca	aggttgacgt	gagagcagat			420
gctggcaaga	agcacttac	agacaaagc	gatcacaaag	cctccctgga	ctcaatgctt			480
gggggtctsg	agcaggaatt	gcaggacctt	ggcattgcca	cagtgcccaa	gggccattgt			540
gcatectgpc	agaaacogat	tgctgggaag	gtgatccatg	ctctagggca	atcatggcat			600
cctgagcatt	ttgtctgtac	tcattgcaaa	gaagagattg	gtccagtc	cttctttgag			660
ccgagtggct	tggngctactg	ccccaacgac	taccaccaac	tttttctcc	acgttgtgct			720
tactgcgctg	ctcccatoct	ggataaagt	ctgacagcaa	tgaaccagac	ctggcaccia			780
gagcacttct	tctgctctca	ctgcggagag	gtgtttgggtg	cagaaggctt	tcatgagaag			840
gacaagaagc	catattgccc	aaaggatttc	ttagccatgt	tctcacccaa	gtgtgggtggc			900
tgcaatcgcc	cagtgttgga	aaactacctt	tcagccatgg	acactgtctg	gcaccocagag			960
tgctttgttt	gtggggactg	cttcaccagt	ttttctactg	gtccttctt	tgaactggat			1020
ggacgtccat	tctgtgagct	ccattaccat	caccgcgggg	gaacgtctctg	ccatgggtgt			1080
gggcagccca	tcactggccc	ttgtatcagt	gccatgggg	acaagtcca	tcctgagcac			1140
tttgtgtgtg	ctttctgcct	gacacagttg	tcgaagggca	ttttcaggga	gcagaatgac			1200
aagacctatt	gtcaaccttg	cttcaataag	ctcttcccac	tgtaatgcca	actgatccat			1260
agcctcttca	gattccttat	aaaatttaa	ccaagagagg	agaggaaagg	gtaaatttt			1320
tgtaactgac	cttctgctta	atagtcttat	agaaaaagga	aagggtgatga	gcaaataaag			1380
gaacttctag	actttacatg	actaggctga	taactcttat	ttttaggctt	ctatacagtt			1440
aattctataa	attctctttc	tccctctctt	ctocaatta	gcacttggag	ttagatctag			1500
gtccttctat	ctcgccctc	tacagatgta	ttttccactt	gcataattca	tgccaacact			1560
ggttttctta	ggtttctoca	ttttcacctc	tagtgatggc	cctactcata	tcttctctaa			1620
tttggtcctg	atacttggtt	cttttcacgt	tttccattt	ccctgtgggt	cactgtctta			1680
caatcactgc	tgtggaatca	tgataccact	tttagctctt	tgcatcttcc	ttcagtgtat			1740
ttttgttttt	caagaggaag	tagattttta	ctggacaact	ttgagtactg	acatcattga			1800

taaataaact ggcttgtggt ttcaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
 aaaaaa 1866

<210> 67
 <211> 1152
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (668)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (745)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1015)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1088)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1110)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1113)
 <223> n equals a,t,g, or c

<400> 67
 ctcaaggatg taaaggctct gcagatttcg ggaggcctgt ctcccagcac ctgatgggac 60
 actttttgcc ccactgtaaa ttctgggtgt atcctccact gtatgctgtc accccaaggg 120
 caagcactgc atctgcttag tgaaggattt attgttcgga agatacattt tccccttkag 180
 cagagagtgg cgtatcctgg cagtcttcgg tgagccagtt gtaccaggat tatgaaatgc 240
 agatgtttac tgtgtcattg ttgctgtcat tgctactgag gagtactgac cagaatcatc 300
 tgcaactytt agttggcaga gaggaccact atggcgggta gctcttttct ttctgccat 360
 tgtggggatg attccaggcc aaagatgatg garaagtatg gaaatcatct gaaagggtga 420
 agcttggcac gtgaagccat tcatgacttt gtaaggcagt tttgctgaag gccagttctg 480
 ccctgggagg gacggaggtg aatcctcctg agtacctgtg gttttcttac ttctgtctga 540
 atttacctaa gtgcctgttg tttgcttgct gtggaggcct tctgggtattt catttcaggt 600
 gcagatgcct tcactttccc accraaaaaa ccccmaccaa acctaagacc ttactgcaac 660
 taagtytncc aagtactttt taacccaatg ggatgaacag cctgtgggtct gctcagatca 720
 ccctgagtgc gtgtgagaag gcmtnngcct tgccaggaaa tccagggaagg cagggccggg 780
 ctgtgttga agctggctta gctgggtggg cagccttatt tcaattaaaa ggcattgac 840
 tgggagcagc agtctggag tttgttgcat ttctatttgc cctcaaaatg agaaaccagg 900
 aaaatagcag attggagcct tcgagaaggc agtaaatggc tgtttttatt gacaaaagga 960
 aaacatttta ctgccatctc actgatggca tctcactgac ttaaaatgaa ggcangttgt 1020
 agtaaaaaaa aaagtctaca tttttccacc gccacgttct tatatcctgt ttgtcagcca 1080

10004860-120701

ctgctcanaa gggcatgttg tcttgcggan tanaggcgct ctccttccct cgttttccct 1140
ataggttggg tg 1152

<210> 68
<211> 2483
<212> DNA
<213> Homo sapiens

<400> 68
agcaggcggg ggcgtggggg cgggagcagc gcgkagcccc gctcggccac accgatcgcc 60
cgccgccatg ggctcctcgc aaagcgtcga gatcccgggc gggggcaccg agggctacca 120
cgttctgcgg gtacaagaaa attccccagg acacagagct ggtttggagc ctttctttga 180
ttttattggt tctattaatg gttcaagatt aaataaagac aatgacactc ttaaggatct 240
gctgaaasca aacgttgaaa agcctgtaaa gatgcttata tatagcagca aaacattgga 300
actgcgagag acctcagtc caccaagtaa cctgtggggc ggccagggct tattgggagt 360
gagcattcgt ttctgcagct ttgatggggc aaatgaaaat gtttggcatg tgctggaggt 420
ggaatcaaat tctcctgcag cactggcagg tcttagacca cacagtgatt atataattgg 480
agcagatata gtcataatg agtctgaaga tctattcagc cttatcgaaa cacatgaagc 540
aaaaccattg aaactgtatg tgtacaacac agacactgat aactgtcgag aagtgattat 600
tacaccaaata tctgcattgg gtggagaagg cagcctagga tgtggcattg gatattggtta 660
tttgcataca atacctacac gccattttga ggaaggaaaag aaaattttctc ttccaggaca 720
aatggctggg acacctatta caccctctaa agatgggttt acagagggtc agctgtcctc 780
agttaatccc cgtcttttgt caccaccagg aactacagga attgaacaga gtctgactgg 840
actttctatt agctcaactc caccagctgt cagtagtgtt ctcagtacag gtgtaccaac 900
agtaccgtta ttgccaccac aagtaaacca gtccctcact tctgtgccac caatgaatcc 960
agctactata ttaccaggtc tgatgccttt accagcagga ctgccccaac tccccaacct 1020
caacctcaac ctcccagcac cacacatcat gccagggggt ggcttaccag aacttgtaaa 1080
cccaggctct ccacctcttc cttccatgcc tccccgaaac ttacctggca ttgcacctct 1140
ccccctgcca tccgagttcc tcccgctcatt ccccttggtt ccagagagct cttctgcagc 1200
aagctcagga gagctgctgt cttccctccc gccaccagc aacgcaccct ctgaccctgc 1260
cacaactact gcaaaggcag acgctgcctc ctcactcact gtggatgtga cgccccccac 1320
tgccaaggcc cccaccaccg ttgaggacag agtcggcgac tccaccccag tcagcgagaa 1380
gcctgtttct gcggctgtgg atgccaatgc ttctgagtc ccttaacttt gaaccattct 1440
ttggaattgg cgtggtatat ttaaccacgg gagcgtgtct ggaaacgcaa actatcatta 1500
atctcactat agtttgatcc gtatctgtag gcactcctgta aataattcca aggggaaaac 1560
taaaccagga cgtgggttgt atcctgccag gttgagtggg gctcacacgc taggggtgaga 1620
tgtcagaaaag cgcttgattt ttaaacacac aaaaagaatt gtaagggtgg cttgctgcca 1680
ggcttgcaact gccgttctct ggggtgtgca tcttcgggaa aggtggtggc ggggcgtcca 1740
ctaggtttcc tgtcccctgc tgctccttcc gtaagaaaat gaaatattct atgcctaata 1800
ctcacacgca acatttcttg tactttgtaa gtggtttcgg agaattgcaga ccacctcact 1860
aaactgtaaa cggtaaagag atttttactt ttggtctccg tgagtcgcat ctctactaag 1920
gtttacacag gaattccacc tgaagacttg tgtaaaagt ctacagcgcg cactgttaac 1980
tgaacgtctt tttcttcagc ctatacgcg atccttggtt tgagctctca gaatcactca 2040
gacaacattt tgtaactgct gctgttgctt tctacataca ccttataaag tgacatttca 2100
aaagaaataa ggtgccacag ttttaaacca gaagggtggc ctctgtggct ccttgtagta 2160
ttatagctat actgggaaag catagatata gcaataaagt acagtaattt tacttttttt 2220
cttgtgttac atctaaatta caacccttaa ttgocacgtg tgcacttact actctccagt 2280
atgtcttatt actctccagt atgtcacgca tctttaactt ttcacgtcct atgtttgctt 2340
tctcccatth ttaagagatg gtaagttaac tggaattgat ttactgaatg aaattaaatg 2400
cagatatccc tgtttttgaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2460
aaaaaaaaaa aaaaaaaaaa aaa 2483

<210> 69
<211> 536
<212> DNA
<213> Homo sapiens

10004360.120701

<400> 69
gagaaatgga gctttgttag ataaaaatTT tttcaacgca aacagtcatt ttccagtga 60
aggagagcgt atccgccgta ggatggactt agatcgtgta aaagctgagg ccaccgagga 120
tataacctcc ggggtccttt gcctcctttt ccttagactc cctccaaact cgtgtatctt 180
tccttcagca gtactgggct ccacgcgaac ctagtccttt gtctttaccc tattaccttt 240
cataacatcc tagttgaaaa gtarttattc aaccgcgttt gaaaatgaga acaggttcac 300
agargctagg ttacttgcca aggtcgttca attagtaacc agtaacgcca ggactgccag 360
tttcttgctt ccgaattctc atggtagctt tcaccargct ccccgctmaa tgctaacgct 420
aactactgaa ctagattagc aaaaaggtct ttttaacagaa ttcttggttt tcagagagag 480
tttctttcat gaagcgcccc atttctacag aggaaaataa actccaagca gccagt 536

<210> 70
<211> 574
<212> DNA
<213> Homo sapiens

<400> 70
ggggggcgaa ttcccctggc acgaggctga cgcattgcga tagctaaccg caccgggttc 60
agctcgcctt tcttggccag aggcgccggg tggactcacg ggcggggcat gatgggtggtg 120
ggtagcggca cctcgtctggc gctctcctcc ctctgtctcc tgctgtcttt tgctgggatg 180
cagatgtaca gccgtcagct ggctccacc gagtggtcca ccatccaggg cggcctgctt 240
ggttcgggtc tcttcgtgtt ctgctcact gccttcaata atctggagaa tcttgtcttt 300
ggcaaaggat tccaagcaaa gatcttcctt gagattctcc tgtgcctcct gttggctctc 360
tttgcattctg gcctcatcca ccgagctctgt gtcaccacct gcttcattct ctccatgggt 420
ggctgtgact acatcaacaa gatctcctcc accctgtacc aggcagcagc tccagtcctc 480
acaccagcca aggtcacagg caagagcaag aagagaaact gacctgaat gttcaataaa 540
gttgattctt tgtaaaaaaa aaaaaaaaaa aaaa 574

<210> 71
<211> 932
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (884)
<223> n equals a,t,g, or c

<400> 71
tcatcatata caaagttttt cgtcacactg caggggtgaa accagaagtt agttgctttg 60
agaacataag gtcttgtgca agaggagccc tcgctcttct gttccttctc ggcaacacct 120
ggatcttttg ggttctccat gttgtgcacg catcagtggt tacagcttac ctcttcacag 180
tcagcaatgc tttccagggg atgttcattt ttttattcct gtgtgtttta tctagaaaga 240
ttcaagaaga atattacaga ttgttcaaaa atgtcccctg ttgttttga tgtttaagggt 300
aaacatagag aatgggtgat aattacaact gcacaaaaat aaaaattcca agctgtggat 360
gaccaatgta taaaaatgac tcatcaaatt atccaattat taactactag acaaaaagta 420
ttttaaatca gtttttctgt ttatgtata ggaactgtag ataataagggt aaaattatgt 480
atcatataga tatactatgt ttttctatgt gaaatagttc tgtcaaaaat agtattgcag 540
atatttgga agtaattggg ttctcaggag tgatatcact gcacccaagg aaagattttc 600
tttctaacac gagaagtata tgaatgtcct gaaggaacc actggcttga tatttctgtg 660
actcgtgttg cctttgaaac tagtccccta ccacctcgtt aatgagctcc attacagaaa 720
gtggaacata agagaatgaa ggggcagaat atcaaacagt gaaaagggaa tgataagatg 780
tattttgaat gaactgtttt ttctgtagac tagctgagaa attgttgaca taaaataaag 840
aattgaagaa acacatttta ccatttaaaa aaaaaaaaaa actngagggg ggccccggtac 900
ccaatcgcc gcatagtgat cgtaaacaat ct 932

10004560-120701

<210> 72
 <211> 996
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (584)
 <223> n equals a,t,g, or c

<400> 72
 cgccctggcac catgaggacg cctggggcctc tgccctgtgct gctgctgctc ctggcggggag 60
 cccccgccgc gcggcccact cccccgacct gctactcccg catgcggggc ctgagccagg 120
 agatcacccg cgacttcaac ctccctgcagg tctcggagcc ctccggagcca tgtgtgagat 180
 acctgcccag gctgtacctg gacatacaca attactgtgt gctggacaag ctgcggggact 240
 ttgtggcctc gcccccggtg tggaaagtgg cccaggtaga ttccttgaag gacaaagcac 300
 ggaagctgta caccatcatg aactcgttct gcaggagaga tttggtattc ctgttggatg 360
 actgcaatgc cttggaatac ccaatcccag tgactacggt cctgccagat cgtcagcgct 420
 aagggaaactg agaccagaga aagaacccaa gagaactaaa gttatgtcag ctaccagac 480
 ttaatgggcc agagccatga ccctcacagg tcttgtgtta gttgtatctg aaactgttat 540
 gtatctctct accttctgga aaacagggct ggtattccta ccnggaacc tcctttgagc 600
 atagagttag caacctgct tctcattccc ttgactcatg tcttgccagg atggttagat 660
 acacagcatg ttgatttggg cacctaaaaa gaagaaaagg actaacaagc ttcactttta 720
 tgaacaacta ttttgagaac atgcacaata gtatgttttt attactggtt taatggagta 780
 atggtacttt tattctttct tgatagaaac ctgcttacat ttaaccaagc ttctattatg 840
 cctttttcta acacagactt tcttcaactg ctttcattta aaaagaaatt aatgctctta 900
 agatatatat tttagtagt gctgacagga cccactcttt cattgaaagg tgatgaaaat 960
 caaataaaga atctcttcac atgaraaaaa aaaaaa 996

<210> 73
 <211> 785
 <212> DNA
 <213> Homo sapiens

<400> 73
 ggcacgaggg gctttgcgta cacaatagct gctaggagta cccaaagcct gartacarcc 60
 tgctggtgtc atggccacgt gtgagcaggc cagcgtcama cggctcgctg tgaccctgcc 120
 cgragactga aatgggacct ggtcttctcc tkgtcctgtg atwaaagtc tctcttgaaa 180
 gtggagagca aaggcacaca gaggtgcgag ctacacaaga ttcctcccg tgactgggta 240
 atcaatgtta ctgctgtttc ctttgacagga aagaccacag caagattctt tcattcgtct 300
 cctcctagcc tgggggacca ggctcgaact gaccctggac atcaaaggag ggattatgtg 360
 gctgctaaaag ccatcgggcc acagccctgt tcacrtcttg gtgcttctct tcccagagg 420
 ctggtcccag ccaggcacac acaaaaggca gattctcgta aacscagcct cctcctctgg 480
 aggctgcctc ctgccttgga tctggagtgg agctgctctg agattttgag ttcttctgca 540
 gagatgatta aatatatcca agagacattg gaaaacctgc tgaacatttt acattggctc 600
 gctcagcaca tggctggatg cggatatttc tataattcca gaaagtcaca cagctcctct 660
 gtatgagacc agtgggggcc atttaaaaga acaggatgag aatctaagat atattattaa 720
 taaatgtaat ggattttttt tttgtaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
 aaaaaa 785

<210> 74
 <211> 1069
 <212> DNA
 <213> Homo sapiens

10004350 "120701

<220>
 <221> SITE
 <222> (20)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (92)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (886)
 <223> n equals a,t,g, or c

<400> 74

tcctcaccat	tcccctaggn	cagggtccctg	cagggtcccac	acttctccca	ggtcccataa	60
cttgggtcgg	tcctttccct	ggagtagctg	gntccctccag	tcgaggtccc	tggtcagtcg	120
gttcttaggc	tcctgcacat	gaagggtgtg	gcctgtgggtg	tgtgggctgc	tctaggagca	180
gatacaggct	ggtatagagg	atgcagaaaag	gtagggcagt	atgtttaagt	ccagacttgg	240
cacatggcta	gggatactgc	tcactagctg	tggaggtcct	caggagtgga	gagaatgagt	300
aggagggcag	aagcttccat	ttttgtcctt	cctaagaccc	tggtatttgt	gttatttcct	360
gcctttccga	gtcctgcagt	gggctgccct	gtaccctgaa	cctcatgagc	ctctaaggga	420
aaggaggaac	aattaggacg	tggcaatgag	acctggcagg	gcagartaca	agcccagcac	480
cagtgtccca	gccttactgg	gtccttacct	tgggccaac	agggagggtc	gatacctcct	540
tgctcttcc	agatgccac	ctcctacaat	ctcagccac	aagtcctctc	caccctaggg	600
ggcttgctgc	atggcaataa	ctcataatct	gatttgagg	tttgccctt	acaggggcag	660
attttctgct	cagttcaaca	atgaaatgaa	gaggaaactc	ctctttctac	agctcacttc	720
tatcagaggg	ccaggtgcct	cagagccaca	ttgagttgct	ttttctggga	tgaggaagta	780
gggttaaact	ccccagtttc	ctgagggagg	ctcctgacag	gtgccctttg	tcagacccta	840
ccacagcctg	gataggcagc	cacattggtc	ctcgcccttg	ctcggnactc	cgtgggtggc	900
ctgcccttct	ccctgcatgc	ctgtgggtct	gctctggtgt	gtgaaggctg	gtgggttaac	960
tgtgtgccta	ctgaacctgg	caaataaaca	tcaccctgca	aagccaaaaa	aaaaaaaaaa	1020
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1069

<210> 75
 <211> 831
 <212> DNA
 <213> Homo sapiens

<400> 75

ggacattaga	tcactgtgga	cctaaaacaa	acaaacaact	ataaggaaaa	tggcattaga	60
aatggtctgg	ggatcagttt	atcactgcag	ttgttacatc	accccatggg	ctaaaataca	120
gagctttagt	ctgtctctgt	ttcagttcat	tttacaggag	gtgaacatca	cacttccaga	180
aaactctgtc	tggatgaaa	ggtataaatt	tgatattcct	gtctttcact	tgaatggcca	240
gtttctgatg	atgcatcgag	taaacacctc	aaaacttgaa	aaacagctcc	tgaaacttga	300
gcagcaaagt	actggargct	gactgatgcc	ctcatgattt	tccaccctct	cttcccataa	360
agcatcttcc	taaggaaaatg	amcatggcct	gatactcatt	ttgtcacttg	tacagagccc	420
taaggatggt	ctgaattcag	tgggtgcaaa	taaatgttga	cattcccctt	ttggttgatg	480
gaagtatcag	tgtgggaact	gtttgcttaa	tggcatttta	taaaataaka	akakcatatt	540
agcagggagg	gagatgatgg	agggagggag	aagtccattt	gtcttattta	tcctttttgt	600
attaatagag	aagcacttca	cagtcactgg	caatgccatt	tataggaaga	aggttctgca	660
ttcctgctgc	tcccggaggg	cttaactttt	taatgaaaga	ataaatgctc	ttccactcag	720
tagataaagt	gaaatgtgaa	ttgttaataa	ctgtgcacgg	tcaataaagc	gatgttttaa	780
ggaatacaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaactcg	a	831

```
<220>
<221> SITE
<222> (76)
<223> n equals a,t,g, or c
```

```
<210> 77
<211> 1274
<212> DNA
<213> Homo sapiens
```

<400> 77							
gagccaccac	acctggcctg	gaaggaacct	cttaaaatca	gtttaegtct	tgtattttgt		60
tctgtgatgg	aggacactgg	agagagttgc	tattccagtc	aatcatgtcg	agtactgga		120
ctctgaaaat	cctattggtt	cctttatttt	atttgagttt	agagttccct	tctgggtttg		180
tattatgtct	ggcaaatgac	ctgggttatc	acttttcctc	cagggttaga	tcatagatct		240
tggaaacttc	ttagagagca	ttttgctcct	accaagggat	agatactgga	gccccacata		300
atagatttca	tttcactcta	gcctacatag	agctttctgt	tgctgtctct	tgccactcac		360
ttgtgcggtg	attacacact	tgacagtacc	aggagacaaa	tgactttacag	atcccccgac		420
atgcctcttc	cccttggcaa	gctcagttgc	cctgatagta	gcatgtttct	gtttctgatg		480

tacctttttt	ctcttcttct	ttgcatcagc	caattcccag	aatttcccca	ggcaatttgt	540
agaggacctt	tttgggtcc	tatatgagcc	atgtcctcaa	agctttttaa	cctccttgtc	600
ctcctacaat	attcagtaca	tgaccactgt	catcctagaa	ggcttctgaa	aagaggggca	660
agagccactc	tgcgccacaa	agggtggggt	ccatcttctc	tccgagggtg	tgaaagtttt	720
caaattgtac	taataggstg	gggccctgac	ttggctgtgg	gctttgggag	gggtaagctg	780
ctttctagat	ctctcccagt	gaggcatgga	ggtgtttctg	aattttgtct	acctcacagg	840
gatgttgtga	ggcttgaaaa	ggtcaaaaaa	tgatggcccc	ttgagctctt	tgtaagaaag	900
gtagatgaaa	tatcggatgt	aatctgaaaa	aaagataaaa	tgtgacttcc	cctgctctgt	960
gcagcagtcg	ggctggatgc	tctgtggcct	ttcttgggtc	ctcatgccac	cccacagctc	1020
ccaggaacct	tgaagccaat	ctgggggact	ttcagatggt	tgacaaagag	gtaccaggca	1080
aacttcctgc	tacacatgcc	ctgaatgaat	tgctaaattt	caaaggaaat	ggaccctgct	1140
tttaaggatg	tacaaaagta	tgtctgcac	gatgtctgta	ctgtaaattt	ctaatttata	1200
actgtacaaa	gaaaaccctt	tgctatttaa	ttttgtatta	aaggaaaata	aagtttttgt	1260
tgtaaaaaaa	aaaa					1274

<210> 78
 <211> 1133
 <212> DNA
 <213> Homo sapiens

<400> 78						
aggatttttc	cttgttcaac	caaaaatctga	gcattctttc	tatgttgaaa	acactgaaaa	60
actaatttwa	gttaatgaac	tagaaagaat	attgattttw	aagaaacaga	aaaatactac	120
ttatttttct	tctcaaataa	cgtttctttc	aaaaacttct	ggctgaagta	taacatgctg	180
gtagttaaca	taaatcttgt	ctttctcttg	ttctttatct	ttctttgtta	tttagatgct	240
tgtataaatg	tcttttggtt	ttattaagtg	cctaattgac	agagcttaat	ttgaagaagt	300
gccctaattt	attgaccact	taagaattgc	ctttattggg	gtattttatt	tgttcctgcg	360
tctttttgat	gttgttcagt	ctactcatcc	ctgtgagtat	gtgtggggga	cagctgatag	420
aagggaggag	agtgtgtcta	tgctcaggat	tgccctttag	ccactcagcc	agagatccac	480
agggagcaac	aaggacagtt	tcacatgctt	agactttctt	ggaagaaaca	gtgaggaggga	540
gtaagtctgt	agtagtgtca	agctggatgt	agaattgtcc	taaggcagtt	gacccacact	600
tccaacatgt	tttcaacttta	tttgcccttc	cctacatttg	ggttaggttc	catttggtt	660
tgcagcaata	atgactttat	ttctctcttg	gtcaggattt	ggcacataaa	atccttttat	720
tatagaacta	gctatttttag	ttacatagta	atgtaactaa	tggagagatt	tatagagaat	780
tttgkttttg	ctgtcatata	tgtccatttt	ggagacagat	atgatagaac	tagaaattaa	840
gttgcatttc	tgcaagtgcc	atttgaatga	acttcaagta	tcttcttaat	tattaaattt	900
tctgatgaag	gcattgtaac	aaatatatag	tattattaaa	tctaattaat	atttggaaat	960
attaataaat	aggattttta	tttactgtaa	aaagtcaaac	ttcattatgt	agataaatct	1020
tattcttttc	attctttccc	ctgtttacat	cctttttaca	aagcttagtc	accaattaaa	1080
gctttcctat	caaaaaaaaa	aaaaaaaaaa	actcgagact	agttctctct	cct	1133

<210> 79
 <211> 661
 <212> DNA
 <213> Homo sapiens

<400> 79						
gaattcggga	cgaggggaaa	aggatgctga	acgagagcag	aaagcctctt	tcctttgctt	60
caagcctttc	cagtctttat	tttaaactcg	ggttcccttt	ctgtgggtcg	agcaaccttt	120
actccacctg	cactgctgct	cctgggggct	ccccaggcct	ccctctgcct	ttctaccag	180
tggtcgacgg	gatgcctgtc	ttgcctggac	gcaccactgc	tctcctgtcc	ctcaccttgg	240
cttttgctgt	gccctgctct	gggggtgaag	ctggcccatg	tgtcccccg	agtcattggc	300
gtcctcctcg	ggaggcctct	gtgtgcgtca	cgtcttccac	acctgggggc	agctggcgag	360
cccgtgctct	gttccccctg	gctgcttggc	acagagytgc	agcctgggag	tctccgtgga	420
cccagactgg	ggattttgcc	aggggggcga	tgggaggagc	aggtgctttg	cctggcggtc	480
gtgtctgcat	ttctggacgc	cccagagcac	agaagttgcc	ggcactttga	ggtcttctct	540

```

ggcatgtgcc agattacatg agtgacggct gggaatatgt tttctttttt gtaatggagg 600
cgtgtttcac atatagtaaa gctcaccaaa aagtaaaaaa aaaaaaaaaa aaaaaactcg 660
a 661

```

```

<210> 80
<211> 1378
<212> DNA
<213> Homo sapiens

```

```

<400> 80
agacgtgaaa catgtgaaca ctcaagtga gcaaaagcct tccatgatta cctttttatg 60
tcacctcggt accctggagg tccaaggccc ccattgagga tacctaata ggcacttgga 120
ggtgtccag gaagtcagcc attactcccc agtggaatgg atccaactcg acaacaagga 180
catccaaata tgggtgggcc aatgcagaga atgactcctc caagaggaat ggtgccctta 240
ggaccacaga actatggagg tgcaatgaga cccccactga atgctttagg tggccctgga 300
atgcctggaa tgaacatggg tccaggtggg ggtagacctt ggccaaaccc aacaaatgcc 360
aattcaatac catactcctc agcatctcct gggaattatg taggtcctcc aggaggtgga 420
gggccaccag gaacacccat catgcctagt ccagcagatt caaccaactc tggtgataac 480
atgtatactt taatgaatgc agtacctcct ggacctaaca gacctaat tccaatgggy 540
cctgggtcag atggtcccat ggggtggatta ggaggaatgg agtcacatca catgaatggc 600
tctttaggct caggagatat ggacagtatt tccaagaatt ctccaataa tatgagcctg 660
agtaatcaac cgggcactcc aagggatgat ggcgaaatgg ggggaaat tctaaatcct 720
tttcagagt agagttactc ccctagcatg acaatgagcg tgtgatccat taccaagtct 780
cctcatgaaa accacagtga gtcagccctt cacagaacta ctacggaaga aaattattca 840
tcacagtgt cagttaaaca aaggaatctc agtcacacca aaccaacctt tttatttctt 900
gctctctccc ctcttttgtg aagaagcgg gtccaaatgt gattcaaaca actgtacgga 960
gtggcatatt agaattgccc taaactgaac tgcaaataa tatgtgtgtg tgtatatgtg 1020
tggaagag aatgtactgt atatgtgtat gttatacaga catatacaca tacatacatt 1080
gaccacagg acattgtaaa atattatcac atgacatctt aagtagaaat aagtagggac 1140
ttttattcca tctttttttt cacgtttaca ttttaattat tacaagttgc tctgcccc 1200
tccctgaact attttgtgt gtgtatatca ctgctttata taagttattt ttttaagggtga 1260
actcagatgt tatggttttg taaatgtctg caatcatgga taggaataaa atcgcttatt 1320
tgagagcttt cattaataaaa aaaaaaaaaa aacttcgagg gggggcccg taccat 1378

```

```

<210> 81
<211> 1440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (38)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1128)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE

```

<222> (1129)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1440)
 <223> n equals a,t,g, or c

<400> 81

actttgtcca	aatgtgtctg	tcacatgtag	tcagctgnag	naatttataaa	tgaattgcca	60
agtgaagagt	ctgtggatta	attggccgtt	aattaacagg	ctttatcaat	gtgtcctcaa	120
gggagaggcc	caaccctaata	taaggagcta	aacttcctga	gtgaggggct	gtgaggatgg	180
aggtggagga	ggcatctggg	gcgggtggtg	gcggggccag	cagatggcgc	ctccctggct	240
gagctgcccg	caccgccagt	tccctcattt	ccactcagga	aggcagagaa	ggcagagtga	300
tctcctcaag	gaagagcttc	cccagccttc	gggagcagct	ggcagggcgt	ccgggaataa	360
gccctacacg	ccgccgcctg	cctccaactc	actaaccttg	cgctcttgt	ctttcagatt	420
caacgcgttc	aacagaagcc	atccccagcc	cagcttaaat	tataaagata	gacaataact	480
ctgttccaat	ctgcgtgggtg	cttctttagt	aaatactgta	cagattttac	catggagaac	540
ttttttttta	gttttttaact	tttcttaatt	acccttattc	cgaatggacg	aacactttct	600
accactgctg	accattgtaa	aataccgtgt	atataaatcc	cattgaaata	atgccctgga	660
atagaacatc	tcaaatgctg	cttaattaca	gactcagggtc	gattacttgt	atttcatgta	720
atgttcctcc	aagtttagaca	tctgggtgcaa	gaccaaccgg	gagaccatgg	aattgtcaaa	780
agtacaaact	gacagtgtgt	atattttaatt	taaagactta	tttaaaaact	cacaagctct	840
cacctagact	ttggagagca	gtctgttttc	tgtaatgtct	gatactagaa	actaatttgc	900
ttattttagt	tgtattcaag	atttgaagat	gtattttata	gacaagttct	gtttttgaac	960
tttgtggaac	tgttccaatc	aatcaatttc	ccagttatga	tgagtattta	cattatgaat	1020
gtataaccca	gacatgattt	gtaaagccga	cagtatgttt	ctattacaca	acactttttg	1080
atacagcgtc	tcttgtcttc	actgatactg	gagtctccgt	tgtctgcnnng	gtcccttcga	1140
gtttctagtt	acagacacaa	tcatactgtg	atttttattt	taatattggat	atgctatcaa	1200
actgtgatac	acttataatt	cactggctct	gcacagggag	atggagtggtg	gaaaactgta	1260
tttaatacag	tttgtatctg	aataatctgt	atgggtttata	cagttttgtgt	tgttcagaga	1320
tgtttaaggt	ttgatctttg	tttttctaaa	gattaaaaaa	gcacttgccc	cactgtaaat	1380
atacagcatg	taaaattttct	rtagtatata	aatggcgagca	aatcacaaaa	aaaaaaaaan	1440

<210> 82
 <211> 1381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1379)
 <223> n equals a,t,g, or c

<400> 82

cccgggctgc	aggaattcgk	yacgaggcca	gcagttgctc	ccagttcagg	aggtgctcct	60
gtaccctggc	cacagcccaa	tcttgccact	gctgacatct	ggggagactt	taccaaactc	120
acaggatcaa	cttcagacca	gacccagcca	ggcacaggct	gggtccagtt	ctgacctgag	180
cacggttttt	cctcatgtga	cttctgggaa	ggcgctccct	catctgggcc	aaagggaagga	240
ggacgaagcc	ctcctcagct	ggcctgtgtt	tggggcatga	atctctcctc	tctccttgt	300
ctggctctgt	tgacaaaccg	ggcatgtttg	gcagtaaaat	ggcacccgtgt	cacactgttt	360
cctgggattc	aagtatgcaa	ccagaacaca	ggagaagaaa	agctccagga	tccctgtccc	420
catctgtcct	cttgatgtga	gagagactct	gagacttctt	ccatcgcaat	gacctgtatt	480
aaacacaagc	cccccaagca	aaagaagagg	ttgagtttgc	tgccaggatt	cagatcagcc	540
cttcccaggg	tctgcagggtg	tcacatgata	acagttcagc	gggaggcttt	ccgtacccac	600
actggctgta	gcacttcagt	ccatctgccc	tccagaggag	ggtttcttcc	tgatttttag	660
caggtttaga	ggctgcagct	tgagctacaa	tcaggaggga	aattggaagg	attagcagct	720

```
<210> 83
<211> 1706
<212> DNA
<213> Homo sapiens
```

```
<210> 84
<211> 573
<212> DNA
<213> Homo sapiens
```

<400> 84
gaattcgcgc cgaqcttggt agccttagaa ctgcatgagc tgctttacca ctgggaaaca 60

cgagcacagc	ctagcttgat	tttgtatgtg	gtatcagatc	taagggtggat	ggaattcagg	120
acttcctgtc	tactctttga	ttttgtttta	tttttagaaa	tgttttatnt	tgttttattc	180
atntattcat	cttcagagac	atggctcggc	tctgttgccc	aggatggagt	gcattggtgtg	240
atcataggcc	actgcagtgt	tgagctccc	ggctcaggcg	atcctcctgc	ctcagctycc	300
ttagtagctg	ggactatagg	cacatgccct	accatgcctg	gctttgtcta	ctttttgaat	360
gatgtcycaa	actagaaggt	ctattaatnt	aaaaaattaa	ggatagcatg	ccataattaa	420
aaataataac	agtgggaaaa	ggcaccttcc	aatgattcag	acatcaactt	gtgattttaaa	480
aaaacgaaaa	ataaataata	ggaaaaaaag	gggaaaaagt	taaataaaaa	taaaattaaa	540
aaaaaaaaaa	aaaaactcga	ggggggggccc	gta			573

<210> 85
 <211> 684
 <212> DNA
 <213> Homo sapiens

<400> 85						
ctctttggct	gtgtctacct	ccttcatctg	ctgcgcgcac	ataagcaccg	ccctgcccct	60
aggctccagc	cgtcccgcac	cagccccag	gcaccgagag	cacgagcatg	ggcaccaagc	120
caggcctccc	aggctgctct	ycacgtccct	tatgccacta	tcaacaccag	ctgcygccca	180
gctacttttg	acacagctca	cccccatggg	gggccgtcct	ggtggggcgtc	actccccacc	240
cacgctgcac	accggcccca	gggccctgcc	gcctggggct	ccacacccat	ccctgcacgt	300
ggcagctttg	tctctgttga	gaatggactc	tacgctcagg	caggggagar	gcctcctcac	360
actggctccc	gcctcaactc	tttccctgac	cctcgggggc	ccagggccat	ggaaggaccc	420
ttaggagttc	gatgagagag	accatgaggc	cactgggctt	tccccctccc	aggcctcctg	480
ggtgtcatcc	ccttacttta	attccttggc	ctccaataag	tgtcccatag	gtgtctggcc	540
aggcccaact	gctgcggatg	tggctctgtg	gcgtgtgtgg	gcacaggtgt	gagtgtgtga	600
gtgacagtta	ccccatttca	gtcatttctc	gctgcaacta	agtcagcaac	acagtttctc	660
tgaaaaaaaa	aaaaaaaaaa	aaac				684

<210> 86
 <211> 1036
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1020)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1024)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1032)
 <223> n equals a,t,g, or c

<400> 86						
tggaggcaga	tgcacaggag	aaaggttccc	gtccgcaccc	tctcagacct	gaggctgagc	60
ttgcagttag	ggcttctcct	cggccccctg	cccgccccca	gagctgccat	ccctgctggt	120
acaagccaga	ggagcccggg	tgtgaggccc	cagatcacct	ccagggactt	ggggttccca	180
tctgaaatcc	tttatttttg	taccatgggg	tgggccccgg	gctgagaagg	aagaagcacc	240
ctctccccgg	cctcctctgt	ctgcacccgt	ggggctgtga	cttactcctg	cctccagggg	300
cggggcgggg	ccccctggga	cctcttaagg	cccaagggtg	gccccaggac	ctytgggcag	360

1000490-120701

```

agtggaytgc tcattggcaga tgtgtggcaa tgtctggctg wgtctttccg gcamctgcgt 420
yccctytccc gggytccccct gctgcatggt ggatgtgctc cttcctggcc cggtcacatt 480
gcctccttga gccttagtcc aggggggtcac tyctcccacc ccacctacct cacaggggtg 540
ttgtgagggt gcacagagga gcaaagtccc tgaaggccct caggcagtat atagggggccg 600
cccaccttca gctgccctgg gatgggaagg acccagcccc acccctgggc ataactactgt 660
gtttgcaaat ggagattcag gtattgggga tgcagggtgt ggggagctgg cctggcagag 720
taggggtagt tggcttggcc ttctctttgg tgatcccacc ccagccatt tgcattgctg 780
gcccagcgcc tggcctgggg ggcggggaga ggcagcagaa ggggctgggc agggcggtg 840
gaggactcag gaactgccc gggagagtgg gtatggcggc tgagccaggg gccctcctgt 900
gtttgacttc ccgggatggg tccttgcttc tcagctgtgt ccgacccac catgtaataa 960
aacccaaagg aacagcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
ccnngggggg gncccc 1036

```

```

<210> 87
<211> 908
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (805)
<223> n equals a,t,g, or c

```

```

<400> 87
ttaaacaat ggaatcatgc aatatgtgac cttttgcgtc tggcttattt tatttagcat 60
aatgtttttg aggttcatcc aagctgtagc atgtatcagc acctcatttc tttttctggc 120
tgaatattat tcatttatat ggatttacca caattcattt acctattcat cttttgtttc 180
tgctgtctgg ctattgtgaa taatgcttcg ataaacattc atatacaagt ttctatgtgg 240
ctttatgttt tcatttctct tggctatcta catgggagta gaattctagg tcataatata 300
attttatgtt taacttctca aagaattgcc aaaaggtttt tcatagtggc tgcattcatt 360
acattcccac cggcaatgta caaggatttc tttttttcca tatccttgca cttaccaaca 420
cttctttttk gtwatwattt tgttttttca ttattgccac cctagtggat gtgaaatggc 480
atcttattgt tttgatttgc atttctctaa tgacaaatga tatcatactt tttttatgtg 540
cttacggatc aaagggtattt ccttggagaa atgtcccttc aagtcctttg ccatttcaaa 600
atgtggttat ttgtctttta ttattcagtt ttaagaaatt ctggccaggc gcagtggctc 660
acctgtaatc mtagcacttt gggaggccaa ggcgggcaga tcaacttgagk tcaggacttc 720
gagaccagcc tggccaacat ggtgaaaccc catcttacta aaaatacaaa aattagctgg 780
gcgtggtggc aggtgcatgt aatentatct actcaggagg ctgaggcagg agaatcgctt 840
gaaccagga ggcgagggt gcagtgagcc aagatcacgc cattgcactc tagcctgggt 900
gacacaga 908

```

```

<210> 88
<211> 655
<212> DNA
<213> Homo sapiens

```

```

<400> 88
tgcactgggt ctttctcccc agcaaatact gccttcttgt ttttctctga tgtggcaggt 60
gactacaaaa tccgccttgg tattcttcaa atgcatatat attcctttct tgtcagctcc 120
ctctcttctc agattagaaa actgcctcat tttctgctca ctggatgtgc agtcccagct 180
tgtcttctcc tctctcccc cgttgcagg tgttctttt tttttcttc tctcccact 240
gggcagcaaa agtttattcca cagtggaaaw ttaggcatcc tcaagtttcy tcccagcttc 300
tgctgtgttt tcttagagta aattgccaat ttctgttttt acaggaaatc cttttttaa 360
aatggaatca gtgtggtccc catctactct gcaaaaattg catttttctc ttttttcaa 420
tgagatttgt tcaagtttca aaaccacgtg aaataataaa tgtatagtag ttttcttttc 480
cttgggcatt gctwgatatg tgaaatgggt ttatgaaaaa taataaaatc ataacgctat 540

```

ttgttttgact ttcaatttca tgggaatfff tctcagctaa actctaaatg gtgattargc 600
 aaaaaaaaaa aaaaaaaacy graggggggc cgggtaccaa ttcgcctat aatga 655

<210> 89
 <211> 1102
 <212> DNA
 <213> Homo sapiens

<400> 89
 tttttttttt accattttaa ataaaatgaa agtgaccttc tggtttataaa aatctttgtc 60
 tgcattctctg cttatttctt tagaagagat tccaagaagc ggtgagtgat ttcacggcag 120
 cagagggttg ggacatatta cgggcgcgga tccctcttgg agtgagatga ctctccggag 180
 agatttagtc gtcacctctg cgtgtgagc tgcgtcacac cccagggatg tgtctatcaa 240
 gatggaagat cttttacacg ctcttgattt tggtttgcctt tttttctatt actagtga 300
 atgaaacttt ttatatgatt attatccatc ataatccaac acaaattact gcttcatgtt 360
 cttttacttt cctgtgaagg ttttagtgcc ttttaaaaat tgctatatat taagcttggt 420
 aatacttcca tgcgtgattt gtggccatca gtttccccgg gcacaggcct gcacattttg 480
 ctttcacacg ctgggtgggt tttcattttc acttctattt ctggttcttc tategtttta 540
 tggttcagacg ggtttctcgg tgtagaaagc agtttatgaa gatttacttt cgacagtctt 600
 ctctctactt tctacagtga attctctgay gtgtctggga gtwtgggggt ctgggtaaga 660
 rtctctctct caccctattc tctattaaga tccacagcct catgctttat garattgggtg 720
 gccgggarcg ggggagattt gccgatcccc caagccagac tttatcccc tatccctgcc 780
 tctggatccc acgtacaggc ctgggaactc cctgtgggta ggggccaatg gtctcgact 840
 ctcacctgta cccagggtc ggcacaggat ggtcaaggag agaggctgcc caagcgcac 900
 cytctgggtg cccctgaca cgcctccaaa gtgagcaggt aggtttcaac agccccacgt 960
 tgcaggtggg agatgaagct cagggtggag accagtatct cacagttctc tttgcatggc 1020
 cgggtacttg ttagtcaact gatcaagtga aaattctagc cccagaggca ggagaatccg 1080
 gaacaaaatt aaaccagcca gg 1102

<210> 90
 <211> 1533
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (123)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1522)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1527)
 <223> n equals a,t,g, or c

<400> 90
 ggcacgagcc gncacgggca gcgccccata gcgccaggga ccccttgga gcgggagccg 60

10004860-120704

cgggctcgagg ttatggatcc agcggggcggc ccccggggcg tgctcccgcg gccctgcccgg 120
 tgnctggtgc tgctgaaccc gcgcggcggc aagggcaagg ccttgcaget cttccggagt 180
 cacgtgcagc cccttttggc tgaggctgaa atctccttca cgctgatgct cactgagcgg 240
 cggaaccacg cgcgggarct ggtgcggctg gaggagctgg gccgctggga cgctctggtg 300
 gtcatgtytg gagacgggct gatgcacgag gtggtgaacg ggcttcatgg agcggcctga 360
 ctgggagacc gccatccaga agccctctgt tagcctccca gcaggctctg gcaacgcscct 420
 ggagctctcc ttraaccatt atgctggcta tragcaggct accaatgaag acctcctgac 480
 caactgcacg ctattgctgt gccgcgggct gctgtcacc atgaacctgc tgtctctgca 540
 cacggcttcg gggctgcgcc tcttctctgt gctcagcctg gcctggggct tcattgctga 600
 tgtggacctg gagagtgaga agtatcgccg tctgggggag atgcgcttca ctctgggcac 660
 cttcctgcgt ctggcagccc tgcgcacctc ccgcggccga ctggcctacc tcctgtagg 720
 aagagtgggt tccaagacac ctgcctcccc cgcttgggtc cagcagggcc cggtagatgc 780
 acacctgtg ccactggagg agccagtgcc ctctcactgg acagtgggtg ccgacgagga 840
 ctttctgtga gtcctggcac tgctgcactc gcacctgggc agtgagatgt ttgctgcacc 900
 catggggccg tgtgcagctg gcgtcatgca tctgttctac gtgcggggcg gagtgtctcg 960
 tgccatgctg ctgcgcctct tctggccat ggagaagggc aggcataatg agtatgaatg 1020
 cccctacttg gtatatgtgc ccgtggctgc cttccgcttg gagcccaagg atgggaaagg 1080
 tgtgtttgca gtggatgggg aattgatggg tagcgaggcc gtgcagggcc aggtgcaccc 1140
 aaactacttc tggatggta gcggttgctg ggagcccccg cccagctgga agccccagca 1200
 gatgccaccg ccagaagagc ccttatgacc cctggggccg gctgtgcctt agtgtctact 1260
 tgcaggaccc ttctctcttc cctagggctg cagggcctgt ccacagctcc tgtgggggtg 1320
 gaggagactc ctctggagaa gggtgagaag gtggaggcta tgctttgggg ggacaggcca 1380
 gaatgaagtc ctgggtcagg agccagctg gctgggcccc gctgcctatg taaggccttc 1440
 tagtttggtc tgagaccccc accccacgaa ccaaatacaa ataaagtga attcccaaaa 1500
 aaaaaaaaaa aaaaaaaaaa anccccnggg ggg 1533

<210> 91
 <211> 575
 <212> DNA
 <213> Homo sapiens

<400> 91
 atcctctgga atctaggctg aagccaccaa gccttcttca cacttgctgt ctgagcatct 60
 gcagacttaa ccccatgtgg caatcaccaa ggcttatggc ttgtgtctc cagaactgtg 120
 gccagagctg tacctgggcc cctttgagct gaggtgaa ccagagtctg aagctcagca 180
 gggcagtagr gccctgggcc tggccccctga aaccattctt ttctcctaag cctctgggcc 240
 tttgatggga rgggctgtcc tcaagatttt tgaaatgcct ttggagggtt tttgccttgt 300
 cttggatatt ggcttctctt tagttatgct catctctcta gcaagtgaat gtttcacaac 360
 ctgcttggat tctttctcta ccacagarcc aggtgcaaa ttttacaaac ttttacctc 420
 tgtttccctt ttaaatataa atttcaatgt taagtcactt ctttgctccc atatctgatt 480
 taggttgctg gaagtagcca agtcacctct tgaatgctt gctgcttaga aatttcctct 540
 actaggtagc ctgggtcatc acacttaagt tcaaa 575

<210> 92
 <211> 639
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (126)

<223> n equals a,t,g, or c

<400> 92

tccttttcac	ttaaagcacca	cccgacaggg	caggtactat	taccatctcc	gtttgacaga	60
tnaggaacct	ggcacaggaa	gcattttaagt	ggattcccca	ggatcgcccc	actgtcagga	120
gcagantcag	aatgggcctc	agcatcaggc	tcccaatcct	ggcttctaac	tgctgcgctc	180
tgcccttcyc	tcwccccacc	tccccactcc	agtgcctttg	gtcatgccac	tcagactttc	240
aggccaatac	tggattagcc	tcttagtggt	cttgtccctg	cagccatttc	cccaggcagc	300
aattccatgt	gccttcactg	atgtagggtg	ctcttggtgc	atgtgtcaca	tcctattgaa	360
ttgtttatgc	atcttggtca	cactcacagc	accctccctc	tcacacgtcc	tccttataaa	420
aatgtccctc	agtgtctgct	atgagccagg	tgcagactta	agtgcacagg	ctgctacggg	480
aaataaaaaa	ttaacaagga	gcacctgcct	cttaatgcac	agtaacaaac	tatgttaagt	540
gtcaggaagg	aaagggttaag	gatgccagga	aggcttttaa	taaataacct	gacttagatg	600
ggcaggtggt	gctgargatt	aagaacgtgt	tcttctoga			639

<210> 93

<211> 858

<212> DNA

<213> Homo sapiens

<400> 93

cccccggt	gcaggaattc	ggcacgagag	tggctggagt	ctggctgcag	agggaagaca	60
tcagcaggga	gggagccagg	gcctgtcaca	tctttcctct	ggccattgtc	ctggtccttg	120
taagccaga	atctcccctt	ccctgaaggg	aggccagcac	cccaggaggg	cagcagggtgt	180
gctgtgaggg	ttggagtagt	gtgagaggtc	agggtacact	agaatggcca	tggacaccat	240
gtgggggtgc	tctgggctgg	gccacagaac	agtgtccttc	ctgctgctcc	tcccctgcag	300
cttccccga	ccttggtggt	tatttggttt	gataccaatc	agcagaccct	gcaaggtgga	360
ggctcccagg	cctctcagtc	ccaccactct	catgtgccag	tcacccctac	tgtaactgcc	420
caatgagtac	ttcttgccca	ctgccaagat	agagccagtt	taccaagaca	ggggaattgc	480
agtagagaaa	gagttgaata	tacatagagc	cagctaaatg	ggagagtggg	gttttcttat	540
tacttaaatc	agcctcccct	aaaattcaga	ggtgagaatt	tttcaaggac	agtttggtgg	600
gcagggccta	gggaatggat	gctgctgatt	ggctagggat	gcaatcatag	gggtgtagaa	660
aaggctcctg	tgcaactgagt	ccacttttgg	gtgagagcta	ccaaggagct	gctggtctgc	720
tggtcccggg	agagccatct	ggtgtcagga	atgcaaaagt	gtggccaggc	acagtggccc	780
acacttgtaa	tcctagcact	ttgggaggct	gaggcaggag	gaatgcttga	gcccaggagc	840
tcgagggggg	gcccggta					858

<210> 94

<211> 526

<212> DNA

<213> Homo sapiens

<400> 94

gcagggggaat	tcggccacgg	aggggtttca	acaggggccc	tggggtgagg	tgcaracaca	60
aagcccataa	gtgetggcct	gttgggacaa	atgagagaaa	tcccataggg	tggtgatgac	120
agcgcaytca	gccatcytay	tcctggggaa	aatgaaactt	gtgctcctat	caaagtctca	180
gttgtaaaaac	tggaaaaaaa	ttttagaaga	catcttgctc	agcatctgtg	tttatgtcta	240
taaaatgtag	aaaactaaag	cacagagatg	ttaaatgttt	tgtccaaggt	ccaacagctg	300
gttagcargc	ttggtctggt	gacctttcta	ctgaaccaca	gtgccgctgg	gggaagtcc	360
cagcacagat	ggctgctgct	atagctgggg	tatgggcagt	attagtagtt	aaccagtcaa	420
cccaagttcc	catagtctag	gttctgcttc	agctggagggt	tagggaaaaa	cacaagaaaa	480
tcccttacca	ctctaccagt	gctgggggat	gtactaagag	atcccc		526

<210> 95

<211> 426

<212> DNA

<213> Homo sapiens

<400> 95

ggcacagggc aggagagact tgggtccatgg ggagaagcct gcagtataga tgggacctcc	60
aggagcccaa gtagcataga ccctgctgat ccggggccat tgagccagag gatttgggct	120
gaatgtcccc agagacaaaa gggaaaggta gatcccttcc cttaaagatg aaagccatcg	180
cccgggcttg cttattgctc tctctcctgg tccctccaca tgttggtttct gaacatttgt	240
tctggcatca caatccccgt catcctgtca tctggccctt cccacctttc caccttatct	300
cttgcaagtgt ctccgcgtcg acctggcacc tgggtgaarg cttgctcttg ctggtgcca	360
tagccccag tgtatggtct tgamctcccc agccatatgg araccacct caggagggcc	420
cctcga	426

<210> 96

<211> 844

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (490)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (732)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (835)

<223> n equals a,t,g, or c

<400> 96

ggcacagcgg caccagatag gaagccttggc aggggcagct cccccagtgc gcattgccct	60
gtaactcgag cgccctgggag tggggagagg cttggaaatg gagcaggggtg gtggacctcg	120
tcttctcctg ctcatcccg gctcctccca taacacctac ctgacacggc ctggggactt	180
cccagcccaa ggaacaactg agaatactga gtgccagggt agccctagcc ccatttcaca	240
cctgggcaaa gtgaggtcac tggattcaaa cactcagatt taaacctcct ctgtgtctgc	300
agcacctgta tataactgcc agcctctgct gcccctctcc aaaaagtctc tgcccttgtc	360
tttggcacct gtctctgtcc tcccattct ctgctcctcc tttctccaac tcagantcac	420
cctgttagtt cagcaaatgt tcatcgagct ccataatgta gcaggacagg nctgtctaac	480
agattctggn cttgcaaggg tgagacaagt actctccatc tttctctcat cttcacagat	540
ggtctgtcga acaactttgc actgaattgt aaataattga tactgcataa aacattgatg	600
ttctttaagg gtagtccagc aagggtggcaa gtcttataat gataactgct caaggatctc	660
tcagtgaagc atttggggst gctagctctg cctatgggtg aggtcagcta tctcacgcca	720
tctacttcca cntgcccccc catgccaggc tcacctgag ctgagatgcc tgagcaggtg	780

10004550-120701

gcagaaagga gccacctggt ttatgcttcg ggaccacaaa ctctctatc cagangacag 840
 tttt 844

<210> 97
 <211> 1985
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (332)
 <223> n equals a,t,g, or c

<400> 97
 agccctgctg aagtacaggt tcttctatca gtttctgttg ggcaatgaac gagcaacagc 60
 aaaggagatc agggatgaat atgtggagac gctgagcaag atttacctgt cttactaccg 120
 ctcttacctg gggcggtcca tgaaggtgca gtatgaggaa gtcgctgaga aagatgatct 180
 aatgggtgtg gaagatacag caaagaaagg attctyctca aagccatcgc tccgcagcag 240
 gaacaccatt ttcaccctag gaaccgcggg ctctgtcatc tccccactg aacttgaggc 300
 ccccatcctg gtgcctcaca cagcgcagcg gnagagcaga ggtatccatt tgaggccctc 360
 ttccgcagcc agcactacgs cctcctagac aattcctgcc gcgaataacct tttcatctgt 420
 gaattttttg ttgtgtctgg ccagytgca cagcacctgt tccatgctgt catgggcgt 480
 acactcagca tgaccctgaa acacctggat tcttatctag ctgactgcta cgatgccatt 540
 gctgtttttc tctgtatcca cattgttctc cggttccgta acattgcagc aaagagggat 600
 gttcctgccc tggacaggtg ctggggaaca ggtgcttgcc ttgctatggc cacggtttga 660
 actgatcctg gagatgaatg ttcagagcgt ccgaagcact gacccccagc gcctaggggg 720
 gttggatact cggccccact atatcacacg ccgctatgca gagttctcct ccgctcttgt 780
 cagtatcaac cagacaattc ctaatgaacg gaccatgcaa ttgctgggac agctgcaggt 840
 ggaggtggag aattttgtcc tccgagtggc agctgagttc tctcaagga aggagcagct 900
 tgtgtttctg atcaacaact atgacatgat gctgggtgtg ctgatggagc gggctgcaga 960
 tgacagcaaa gaggttgaga gcttcagca gctgctcaat gctcggacac aggaattcat 1020
 tgaagagttg ctgtctcccc cttttggggg tttagtggca tttgtgaagg aggctgaggc 1080
 tttgattgag cgtggacagg ctgagcgact tggaggggaa gaagcccggg taactcagct 1140
 gatccgtggc tttggtagtt cctggaaatc atcagtggaa tctctgagtc aggatgtaat 1200
 gcggagtttc accaacttca gaaatggcac cagtatcatt cagggagcgc tgaccagct 1260
 gatccagctc tatcatcgct tccaccgggt gctgtcccag ccgcagctcc gagccctccc 1320
 tgcccgggct gagctcatca acattcacca ccttatgggt gagctcaaga agcataagcc 1380
 caacttctga tgtgccagaa accgcctga gatctgccg tcatctccat ggacttctgc 1440
 accccattcc atacccttct tcacctgggg tacccttcc agttttcccc ttgcttccca 1500
 ggcccttgac atggcttacc tgccttcaact cccagcacct tgcccaacag gataagctgg 1560
 atccccttgg ccttctgaat atcccagtg cttcagggtt cccaagacca cttccctgtg 1620
 ggcttccaaa atggccttta tcatttctcc agtctgtcac cctcctttcc tgcctccata 1680
 cacccaaggc ttgtttcttc cctgtaaaa accactgcct caatctctgg ttactcaac 1740
 tagtcaccat gtcctgagc atgaagcctc ctcagctctt ggaattgctg gcaaggggtg 1800
 actgcctctg agtcattgtg tttttcaaag tgatttcttt tctgtagctt tttgacctaa 1860
 gatctcagca atttgaacac taacctctcc cctcctggct caagaattac tccgaagtca 1920
 gtctgcagaa aataaatatt tagtatgaca tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
 aaaaa 1985

<210> 98
 <211> 1416
 <212> DNA
 <213> Homo sapiens

<400> 98
 atatgaaggg aaagaatttg attatgtttt ctcaattgat gtcaatgaag gtggaccatc 60

10004850-120701

atataaattg	ccatataata	ccagtgatga	cccttggtta	actgcataca	acttctttaca	120
gaagaatgat	ttgaatccta	tgtttctgga	tcaagtagct	aaattttatta	ttgataacac	180
aaaagggtcaa	atgttgggac	ttgggaatcc	cagcttttca	gatccattta	cagggtggtg	240
tcggtatgtt	ccgggctctt	cgggatcttc	taacacacta	cccacagcag	atcctttttac	300
aggtgctggt	cgttatgtac	cagggttctgc	aagtatggga	actaccatgg	ccggaggttga	360
tccattttaca	gggaatagtg	cctaccgatc	agctgcatct	aaaacaatga	atattttat	420
ccctaaaaaa	gaggctgtca	catttgacca	agcaaaccct	acacaaatat	taggttaaact	480
gaaggaaactt	aatggaactg	cacctgaaga	gaagaagtta	actgaggatg	acttgatact	540
tcttgagaag	atactgtctc	taatatgtaa	tagttcttca	gaaaaaccca	cagtccagca	600
acttcagatt	ttgtggaaag	ctattaactg	tcctgaagat	attgtctttc	ctgcacttga	660
cattcttcgg	ttgtcaatta	aacaccccag	tgtgaatgag	aacttctgca	atgaaaagga	720
aggggctcag	ttcagcagtc	atcttatcaa	tcttctgaac	cctaaaggaa	agccagcaaa	780
ccagctgctt	gctctcagga	ctttttgcaa	ttgttttggt	ggccaggcag	gacaaaaact	840
catgatgtcc	cagagggaat	cactgatgtc	ccatgcaata	gaactgaaat	cagggagcaa	900
taagaacatt	cacattgctc	tggctacatt	ggccctgaac	tattctgttt	gttttcataa	960
agaccataac	attgaaggga	aagcccaatg	tttgtcacta	attagcacia	tcttggaagt	1020
agtacaagac	ctagaagcca	cttttagact	tcttggtggt	cttggaacac	ttatcagtga	1080
tgattcaaat	gctgtacaat	tagccaagtc	tttaggtggt	gattctcaaa	taaaaaagta	1140
ttcctcagta	tcagaaccag	ctaaagtaag	tgaatgctgt	agatttatcc	taaatttgct	1200
gtagcagtgg	ggaagaggga	cggatatttt	taattgatta	gtgttttttt	cctcacattt	1260
gacatgactg	ataacagata	attaaaaaaa	gagaatacgg	tggattaagt	aaaattttac	1320
atcttgtaaa	gtgggtgggga	ggggaaacag	aaataaaaatt	tttgactgct	tgaaaaaaaa	1380
aaaaaaaaaa	aaaaggaaac	tcgagggggg	gcccg			1416

<210> 99
 <211> 1760
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (39)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (255)
 <223> n equals a,t,g, or c

<400> 99						
gccttcaact	cttgttttat	tganttatga	attcttaant	cttctatggc	aggagacatc	60
tatggggagg	ctttgtttgt	tttttgagac	aggggtctcat	ttgtcgccca	gggtgagact	120
ctgtctcaaa	aaaataaaaat	aaaataaaaat	aaaaacaaag	aaaaaaaaaat	aaaatcttta	180
ggcattccca	gacacaaaga	tctcagagac	agacaacaga	gagcytccgt	gttcactctgc	240
ccgaggctgt	ttgtncacag	ttcccttaaa	agatgcctgg	aaatgctccc	aaacaacaagg	300
gactcaagta	tggggctgag	tttgttaaaa	aagcagctaa	atgtgttttag	gaaacacacg	360
aagtgaaacc	agacagtgat	ggcccatgta	caagacttgt	gcttgaagct	ttgggtgtgcc	420
tccatggcca	atttttcagg	cacaaaaacc	cattcctgat	taattattgt	taaaaaagca	480
gctaaatgtg	tttaggaaac	acacgaagtg	aaaccagaca	gtgatggccc	atgtacaaga	540
cttgtgcttg	aagcttttgt	gtgcctccat	ggcdaatttt	tcaggcacca	aaacccattc	600
ctgattaatt	attgatatac	aatgcaaacc	aaactatgaa	aacacagact	ttttttcaga	660
agaggggaaat	aaaggcacag	aaacctgcca	aaatagatat	ttttttccat	aagaatagta	720

tggttgatta	aaatagttta	tcactagtaa	aacttgtatc	actagagcag	acaatacaaa	780
ttagtttttt	aaaaaatgac	attcactgaa	ttcttgggtc	gtgcattcaa	tgtgaataat	840
catcaaaaat	atattacaat	taaagggttg	taaggagctc	tgtctgggat	ttctgcagta	900
tattatttcg	gaggagaaga	accaccataa	agtatgagct	atccactggt	cctttttatg	960
tcatgtatgg	taatcagctc	atctccta	gcaggctcac	aaacttccac	ggtgagatgt	1020
ctaagtgact	tagtgacctt	cacactcatt	aaaggcagcc	ctgtccatca	aactccatac	1080
ctagaaagtt	caataaaactg	tattacattt	taataaatat	ktctgtgtac	tttttgtttt	1140
ttgcttttaa	gctcagctta	aattttgtca	aggaaaccat	ttcacaagac	agtatgtcac	1200
agcctactat	cagcaatagt	ccttgtttat	tagaatctgc	agatgtccat	attacatcaa	1260
atataaatat	atattatatt	tacatttcct	tcttagcttt	caatttaggt	gagtgtattt	1320
atagataaat	ccactaacgc	accactattc	taatcctcag	tgcaactcat	accttctttc	1380
catttagatgc	tcattaatgt	aagacagcat	cttaaaagag	gggtactggt	ccttttttaa	1440
ataaaaggaa	agaaagggaa	tccaagaatg	gaggtctaga	catttcctaa	gagatttttg	1500
ttttgttttt	tatacttaga	aatacttgaa	aaatgtggtc	cctttttgta	gtactagtct	1560
ctacttgggg	acaagaaaat	agaatatgca	actcagaaag	gaaagasccc	aaagamgara	1620
raacctgctt	gtttactcca	ttaacctgtt	taattaagat	ctgcttttaa	atgcctgatg	1680
ctgtgccagt	atcatacaaa	acatcttcca	ccttccaagc	agctgaagca	cctcctcaaa	1740
attctgtttg	tcttgaataa					1760

<210> 100
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 100						
gaattcggca	cgagcgtcca	cgcagccgcc	ggccggccag	caccagggc	cctgcatgcc	60
aggtcgttgg	aggtggcagc	gagacatgca	cccggcccgg	aagctcctca	gcctcctctt	120
cctcatcctg	atgggcactg	aactcactca	agaactccgct	gccccgact	ccctgctgag	180
aagttcaaag	ggcagcacga	gggggtcttt	ggctgctatt	gtcatctgga	gggggaagag	240
tgagagccgg	atagccaaga	ccccaggcat	tttcagaggt	ggcgggacct	tagtctacc	300
cccaacacac	acccctgagt	ggctcatcct	ccctttgggc	ataacgctgc	ccttgggggc	360
tccagaaaca	ggcgggtggg	attgtgccgc	tgagacctgg	aagggcagcc	agcgtgccgg	420
ccagctgtgt	gcattgctgg	cttaatatgc	agggcttggg	gggctgtggc	cacatgcccg	480
gcaggaggtg	agtgaggagc	cctgtggcgt	gctgggtgtg	ggatcgtggg	catttcaaac	540
gggcttgtcg	taccctgaac	aatgtatcaa	tagagaaaaa	aaaaaaaaaa	aaaactcga	599

<210> 101
 <211> 784
 <212> DNA
 <213> Homo sapiens

<400> 101						
gaattcggca	cagaaaaaaa	agagagactg	ggtcttactg	tgttgcccag	acttgtcttg	60
aactcctgcc	tcagcctctc	aagtacttgg	gattataggc	caagaagcca	ccatgcctag	120
cttcttcctg	tcattgatcc	agactaatac	tctgggggtca	gcctcatttc	ttctctttct	180
cactttgcac	atccacttgt	caccaaatch	rgttcattct	gcctcctaag	taagtccttt	240
gattcctcca	gttgttcatt	agtaatgtct	caartgtaat	tttttctagt	agttttcagc	300
ctgtctttcc	kgccttcagt	cttaacttct	ccagtacata	kgccacattg	ttgtcagcag	360
gatcawattt	tatttataaa	tactttacaw	akgtttatkg	ccaaatatta	graaatacag	420
attcatggaa	agaaaaatca	ctgtcccaag	gaggtcactg	gcattggtgag	gttaaggggt	480
gatttttaatt	tttataaaatg	tatatTTTTT	cctgtgtaga	gtagtaaacac	ccttgaaaac	540
acawtccctt	gtaaagtctc	taattctgtg	ctccgcattc	agstgrtctc	ttctttctca	600
gatatttttac	aatttcattt	atcaccacct	ttctctagcc	tttaccgctc	tcttcaatat	660
twacatatgc	agaagtttct	cctaacaac	acctgcctct	gcctcagttc	tgctaccacc	720
ctgttgcttt	ctttcccttc	acaatcaaat	ttaagagtgt	caaaaaaa	aaaaaaaaac	780
tcga						784

10004360.120701

<210> 102
 <211> 404
 <212> DNA
 <213> Homo sapiens

<400> 102
 ggcacgagtt ataaaaattga gactgatgaa acatcaatac tagagcccat gaggatgaaa 60
 gaaattatca aatagtgtctg aacagaataa gatgttaacg ctgagttatt aggactggaa 120
 ggctatgaaa agaacttgaa attgtcggaa tatgtgtctct cttcatgtca tattcaatag 180
 aagtttctag ttttaagattg attttgtgtt ttcttaggca tttcaagtga caagcaaagt 240
 aaatgtatat attatgtgat aaatcatgtt ttcaagaacg tcaaatttct ggactttttt 300
 ctttcaattt ttaattttta aagttttttt ggtattaaaa aatctattca caagccaaaa 360
 aatatataaa atatacagcg aaaagccaaa aaaaaaaaaa aaaa 404

<210> 103
 <211> 2218
 <212> DNA
 <213> Homo sapiens

<400> 103
 aggtattagg cccttttgtg ggagcccat gttttgtttt tctgagttgg tggggaggga 60
 sggaggggga gggctgaatt gttttgcaga ggaagatggc atctgtgctt taaatttctc 120
 attactgggt tagaaaacaa agagggaktg ccctgcacat tttcttttgt gcttttaaat 180
 gtttcttaag ttggaacagg tttcctcggg cctgttttga ctgattgtctg gagtgcattt 240
 gatagttaaa aattactaat tggttttatt tcccttcaca ctctgcctcc cacttctcc 300
 ccccgttact gaaaaataac catttttagtg tcaggctaga aattgaattg ctgagttttg 360
 tgtatccitt aaattaaaaa ccacaagtgt ttattgtagt ggttaaactg tagcatctca 420
 gcatctgggt ggaagctgcc tatatttctt cccagtttaa ctggggacca tctgtgaaat 480
 taattttcca tccagacagc tgctgtgagc aaatgaacat aaatgctcgc tggaaattta 540
 ctaaccagtt tttatattga cctgcagtgt aaaaagcaca ttttaattata aacaatatat 600
 tcaaaatggg caaattttat tttcaaagtc agtgtagagc tagattaaaa gcaactcttt 660
 gccacctact ctgccctttt ggcaaagtta ccttgaacaa agaactctaa gggtttatta 720
 agaactcttt attttcttca taccctgttc tctgcagtgc tttctaacag cttctgggtg 780
 cagattttct tcggcactct tttgcaactca gcttattaca ggtaggtagt gcttaagaaa 840
 agtcatggag gactaaagcc taagtccttt tcaactttcc tccatctgaa ggtaggtgag 900
 ttcactctct tcatagtaat gctgttttac caagacttta tagcagatgg acccagaaag 960
 aattttctgc tattgtgttc actacaacag gatagggaca tcagacagcc ccagaaacct 1020
 cttccagatc tgatatggga ctattaattt ttatgtctgt aattgggtatt cattcacaat 1080
 gcagttgaag ggggaaggct ccactgcatt ctttggctaa ggcctgaatg cttgctcatc 1140
 tgtaagatct atactcgagg ttttgttttc cttttaaaat tctttaggga gagagggatg 1200
 gtttctgagg ggttctgaaa gtatgattca atgtgcaaca tacaggtagg tcttcagcat 1260
 aagctgaaat atatgcatgt aaaaactttg acatcttttt ttttaatttt ccactttctt 1320
 cttaacttta cttctctttt tgtccccccc ccatcttaca gaagttgagg ccaagggaga 1380
 atggtaggca cagaagaaac atggcaaact gctctgtgct ttc aaacca agtgttcccc 1440
 ccaaccccaa atttgtctaa gcaactggcca gtctgttgtg ggcattgttt tctacaacca 1500
 aattctgggt ttttttcttc tttcttttaa catagaggta ccaccacaag ggatgcccta 1560
 ctctctcgca gctcttgaag gcatctgttt gagggaaagg tctctgggca agcaagtgg 1620
 tatttggtatt gcttgcttcc ctttttccac ctgggacatt gyaatcataa aataacagta 1680
 aattccaaac ctcaaaaact attatggcct gagcacagct gaaatctagc agagtttaac 1740
 tcttctgcct ccatgtctgt cacttataat tcaggttctg ctgttggtt cagaacatga 1800
 gcagaagaat cgttttatgc tagttattgc attcatgggt gaaactcaac ttagggaaag 1860
 ggttccaatg tattaagcaa tgggctgctt ctccccaatc ctccctaaca attcgttgtg 1920
 tggacttctc atctaaaagg ttagtggtct ttgcttggga tcagtgtctc ctattgatgt 1980
 tcttgctggg ctccagacac attcctgttg cattaagact tgaaagactt gtagatgtgt 2040
 gatgttcagg cacaggatgc tgaaagctat gttactattc ttagtttgta aattgtcctt 2100

ttgataccat catcttggtt tctttttgta ggtataaata aaaacactgt tgacaataaa 2160
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 2218

<210> 104
 <211> 1351
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (544)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (774)
 <223> n equals a,t,g, or c

<400> 104
 cttcacagac tgacagaatg gttttgtttt gttttgtttt gttttgtttt gtttttgaga 60
 tggactctag ctctgtcacc caggctggag tgcagtgggt cgatctcggc tcaactgcaag 120
 ctcgcctcc cggtttctca ccattctcct gcctcagcct cccgagtagc tgggactaca 180
 ggcgcccacc accacgcccg gctaattttt tgtatttttt agtagagacg gggtttcacc 240
 atgttagcca ggatgggtct gatctctctga cctcgtgatc cgcccgcytc ggctcccaa 300
 agtgcctggga ttacaggcgt gagccaccgt gcctgcccc gaatggtttt taaagccaca 360
 gttgagargc caccatttgc ccggcgccct gacagtgatc atcttgttca tcttgttcag 420
 tcttttcttg tgtgattgga attattcatc ccctttgaaa gatgagaagg ttgagatgca 480
 aagagtctac ctttccaagt tctcactgct ggaaagarct agaagcacag ttcaaagttc 540
 tggnttctgg actctgcagt ccaggtytcc cttytccac ttgcctaccc tcaatgccac 600
 actgtttttt aagtggccca taacttgaag graaagttta aagacagttc aatttaatca 660
 tcagratgca tctttttttt tttcggarac ggaktttcac tcttgctgcc casgctggag 720
 tgcaatgggt caatgatctc ggctcactgc aacctatgcc tctggggttc aagngattat 780
 ccagcctcag cctcccgagt agctgggatt atgggcgccc accaccatgc ccagctaatt 840
 tttgtatttt tttttttagt agagatgggg ttccgccagg ttggccaggc tgktcttggt 900
 aaytcctggc ytcagggtgat ytgccacacat catcytccaa aagtgcctggg attacaggca 960
 tgagccactg gcgctggcyt cagaatgcat tcttacacat ctatcctaga catttataag 1020
 cactctaatt gataacaatc caagaataaa tgattgtaaa agatgatgcc gaagagtga 1080
 tgtcaatctt tttttcctaa gaaaaaaagt ccgcgagtat taaatattta gatcaatgtt 1140
 tataaaatga ttactttgta tatctcatta ttcctatttt ggaataaaaa ctgaccttct 1200
 ttaatcatat acttgtcttt tgtaaatagc agcttttgtg tcattctccc cactttatta 1260
 gttaatttaa attggaaaaa accctcaaac taatattctt gtctgttcca gtcttataaa 1320
 taaaacttat aatgcatgta aaaaaaaaaa a 1351

<210> 105
 <211> 2066
 <212> DNA
 <213> Homo sapiens

<400> 105
 ggcacgaggg ggcggagggc cacaatcaca gtcgggggca ttgggggaac ccgagccggc 60
 tgcgcggggg gaatccgtgc gggcgccctc cgtcccggtc ccatcctcgc cgcgctccag 120
 cacctctgaa gttttgcagc gccagaaaag gaggcgagga aggagggagt gtgtgagagg 180
 agggagcaaa aagctcacc taaaacattt atttcaagga gaaaagaaaa agggggggcg 240
 caaaaatggc tggggcaatt atagaaaaca tgagcaccac gaagctgtgc attgttgggtg 300
 ggattctgct cgtgttccaa atcatcgcc ttctgggtgg aggcttgatt gctccagggc 360
 ccacaacggc agtgtcctac atgtcgggtg aatgtgtgga tgcccgttaag aaccatcaca 420

10004360-120704

agacaaaatg gttcgtgcct tggggaccca atcattgtga caagatccga gacattgaag 480
aggcaattcc aagggaaatt gaagccaatg acatcgtgtt ttctgttcac attccccctcc 540
cccacatgga gatgagtcct tgggtccaat tcatgctgtt tatcctgcag ctggacattg 600
ccttcaagct aaacaaccaa atcagagaaa atgcagaagt ctccatggac gtttccccctgg 660
cttaccgtga tgacgcattt gctgagtggg ctgaaatggc ccatgaaaga gtaccacgga 720
aactcaaatg caccttcaca tctcccaaga ctccagagca tgagggccgt tactatgaat 780
gtgatgtcct tcctttcatg gaaattgggt ctgtggccca taagttttac cttttaaaca 840
tccggctgcc tgtgaatgag aagaagaaaa tcaatgtggg aattggggag ataaaggata 900
tccggttggg ggggatccac caaaatggag gcttcaccaa ggtgtggttt gccatgaaga 960
ccttccttac gccagcatc ttcattatta tgggtgtgga ttggaggagg atcaccatga 1020
tgtcccgacc ccagtgctt ctggaaaaag tcatctttgc ccttgggatt tccatgacct 1080
ttatcaatat ccagtgga tgggtttcca tcgggttga ctggacctgg atgctgctgt 1140
ttggtgacct ccgacagggc atcttctatg cgatgcttct gtccttctgg atcatcttct 1200
gtggcgagca catgatggat cagcacgagc ggaaccacat tgcagggtat tggaaagcaag 1260
tcggacccat tgcggttggc tcttctgcc tcttcattat tgacatgtgt gagagagggg 1320
tacaactcac gaatcccttc tacagtatct ggactacaga cattggaaca gagctggcca 1380
tggccttcac catcgtggct ggaatctgcc tctgcctcta ctctctgttt ctatgcttca 1440
tgggtatttca ggtgtttcgg aacatcagtg ggaagcagtc cagcctgcca gctatgagca 1500
aagtcggcg gctacactat gaggggctaa tttttaggtt caagtctctc atgcttatca 1560
ccttggcctg cgctgccatg actgtcatct tcttcacgt tagtcaggta acggaaggcc 1620
attggaatg gggcgcgctc acagtccaag tgaacagtg ctttttcaca ggcattctatg 1680
ggatgtggaa tctgtatgtc tttgctctga tgttcttga tgcaccatcc cataaaaaact 1740
atggagaaga ccagtcctaat ggaatgcaac tcccatgtaa atcgaggga gattgtgctt 1800
tgtttgtttc ggaactttat caagaattgt tcagcgcttc gaaatattcc ttcattcaatg 1860
acaacgcagc ttctggtatt tgagtcaaca aggcaacaca tgtttatcag ctttgcattt 1920
gcagttgtca cagtcacatt gattgtactt gtatcgcac acaaatacac tcatttagcc 1980
tttatctcaa aatgttaaat ataaggaaaa aagcgtcaac aataaatatt cttgagtata 2040
aaaaaaaaa aaaaaaaaaa aaaaaa 2066

<210> 106
<211> 1705
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (724)
<223> n equals a,t,g, or c

<400> 106
aattcggcak agggcagctg tgggtgga ggaactggc tgotcaact tgetggcttg 60
cgcacagga ctggctttat ctctgactc acggtgcaaa ggtgactct gcgaacgtta 120
agtcgctccc cagcgcttgg aatcctacgg cccccacagc cggatcccc cagccttcca 180
ggtcctcaac tccgyggac gctgaacaat ggctccatg gggctacagg taatgggcat 240
cgcgctggcc gtctgggct ggctggcgt catgctgtgc tgcgcgctgc ccatgtggcg 300
cgtgacggcc ttcacggca gcaacattgt cacctcgag accatctggg agggcctatg 360
gatgaactgc gtggtgcaga gcaccggcca gatgcagtg aaggtgtacg actcgctgct 420
ggcactgccg caggacctgc agggggccc cgccctcgtc atcatcagca tcatcgtggc 480
tgctctgggc gtgctgctgt ccgtggtggg gggcaagtgt accaactgcc tggaggatga 540
aagcgccaag gccaagacca tgatcgtggc gggcgtggtg ttctgttg ccggccttat 600
ggtgatagt cgggtgtcct ggacggcca caacatcatc caagacttct acaatccgct 660
ggtggcctcc gggcagaagc gggagatggg tgctcgtc tacgtcggct gggcgcctc 720
cggmctgctg ctcttggcg ggggctgct ttgctgcaac tgtccacccc gcacagacaa 780
gccttactcc gccaaagtatt ctgctgccc ctctgctgct gccagcaact acgtgtaagg 840
tgccacggct ccactctgt cctctctgct ttgttcttcc ctggactgag ctacgagcag 900
gtgtgtgacc caggagggcc ctgccacggg ccactggctg ctggggactg gggactgggc 960
agagactgag ccaggcagga aggcagcagc cttcagctc tctggcccac tcggacaact 1020

tcccaaggcc	gcctcctgct	agcaagaaca	gagtcacccc	tcctctggat	attggggagg	1080
gacggaagt	acaggggtgt	gtgggtggagt	ggggagctgg	cttctgctgg	ccaggatggc	1140
ttaaccctga	ctttgggata	tgcctgcata	gggtgtggcc	actgtcccca	tttacathtt	1200
ccccactctg	tctgcctgca	tctcctctgt	tgccggtagg	ccttgatata	acctctggga	1260
ctgtgccctg	ctcaccgaaa	cccgcgccca	ggagtatggc	tgaggccttg	cccacccacc	1320
tgccctggga	gtgcagagt	gatggacggg	tttagagggg	aggggccaag	gtgctgtaaa	1380
caggtttggg	cagtgggtgg	ggagggggcc	agagaggcgg	ctcagggtgc	ccagctctgt	1440
ggcctcagga	ctctctgcct	cacccgcttc	agcccagggc	ccctggagac	tgatccccctc	1500
tgagtcctct	gcccccttcca	aggacactaa	tgagcctggg	aggggtggcag	ggaggagggg	1560
acagcttcac	ccttggaagt	cctgggggtt	ttcctcttcc	ttctttgtgg	tttctgtttt	1620
gtaatttaag	aagagctatt	catcactgta	attattatta	ttttctacaa	taaattgggac	1680
ctgtgcacag	graaaaaaaa	aaaag				1705

<210> 107

<211> 1167

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (6)

<223> n equals a,t,g, or c

<400> 107

nggagntcca	cgcgggtggc	ggcgcgtcta	gaactagtgg	atcccccggg	ctgcagggaat	60
tcggcacgag	gccaccaacc	gtggcatcac	gcgaatccgg	ggcaccagct	accagagccc	120
tcacggcata	cccatagacc	tgctggacag	gcgccatgtc	actctccagg	gcccgggtga	180
ggaaggagaa	gctctcgatg	tccagcatgt	ggacctcgtc	gatgaacagc	actccaggga	240
tgatctccgc	cttgccctcc	tcgcgccact	cagccacctt	ggcattgata	tgctcacgga	300
cttctgactt	gatctcccct	gtgtcacctg	agaagagcgc	caggaagccc	tggtgctgag	360
agttgatgac	gtcgatctcg	tgcagggaca	cgggtgtgcac	cacctccttg	cgtttctgga	420
gtcctccata	tgggcaactg	acgaacttgg	tctgggagcc	catagcgtcg	tagttcgcgg	480
gcgcgtgtga	aggagcggcc	cagcttggag	atcttgcccc	tcgccttgtc	gatgggtgac	540
acgtcccccg	cctggacctt	gtccttggtc	agggamtcaa	tcatcttggg	gcccaggctg	600
tagatgggtc	ccatctctgt	ggtcttgagg	gtcagtttgc	ccaccttgga	gcccgtccct	660
gttgctggtc	gatcaatctg	gatctccacc	acctcccctt	cgatgatctc	cgtctcctcc	720
ttgatgcgaa	cgcgcgatga	ccgcgggaag	gcctgcgtca	gcgcctcggg	cttgctcctc	780
tccagggaga	agatttcact	gccggcgatg	gctgtgaatg	gcgtgtcagg	gcccagggcc	840
tgcgccatgc	ccatggcgat	ggcgcgtctc	cccggtcccc	gctggccagc	aataaggact	900
gcccgaaccg	caatcttccc	ttcccggata	atctccagca	ccacgccagc	cgcccgcctg	960
gccgccagct	gacccaccat	gccttgcgaa	gcctgccgag	gctccaaggc	atcgtccagc	1020
cccagtcctc	ggatgtggga	gtgggcaccc	attcgtctaa	tccttggtac	atcacggatc	1080
tccgggactt	tggttgtggc	tgtaacgggt	gccatgatgc	tcaccaactg	ccagagtcta	1140
gcggaaaacc	tctgccgaat	tcctgca				1167

<210> 108

<211> 1907

<212> DNA

<213> Homo sapiens

<400> 108

ggcacagggg aatcatcgtg tgatgtgtgt gctgcctttg tgagtgtgtg gagtcctgct 60
 cagggtgttag gtacagtgtg tttgatcgtg gtggccttgag gggaaccctt gttcagagct 120
 gtgactgcgg ctgcactcag agaagctgcc cttggctgct cgtagcgccg ggccttctct 180
 cctcgtcatc atccagagca gccagtgtcc gggaggcaga aggtaccggg gcagctactg 240
 gaggactgtg cgggcctgcc tgggctgccc cctccgccgt ggggccctgt tgctgctgtc 300
 catctatttc tactactccc tcccaaatgc ggtcggcccg cccttcactt ggatgcttgc 360
 cctcctgggc ctctcgcagg cactgaacat cctcctgggc ctcaagggcc tggccccage 420
 tgagatctct gcagtgtgtg aaaaagggaa tttcaacgtg gcccatgggc tggcatggtc 480
 atattacatc ggatatctgc ggctgatcct gccagagctc caggcccgga ttcgaactta 540
 caatcagcat tacaacaacc tgctacgggg tgcaagtgc cagcggtgt atattctct 600
 cccattggac tgtggggtgc ctgataacet gagtatggct gaccccaaca ttcgcttct 660
 ggataaactg cccagcaga ccggtgaccg tgctggcatc aaggatcggg tttacagcaa 720
 cagcatctat gagcttctgg agaacgggca gcgggcgggc acctgtgtcc tggagtacgc 780
 caccoccttg cagactttgt ttgccatgtc acaatacagt caagctggct ttagcgggga 840
 ggataggctt gagcaggcca aactcttctg ccggacactt gaggacatcc tggcagatgc 900
 ccctgagctc cagaacaact gccgcctcat tgctaccag gaacctgcag atgacagcag 960
 cttctcgtg tcccaggagg ttctccggca cctgcggcag gaggaaaagg aagaggttac 1020
 tgtgggcagc ttgaagacct cagcgggtgcc cagtacctcc acgatgtccc aagagcctga 1080
 gctcctcatc agtggaatgg aaaagcccct cctctccgc acggatttct cttgagacct 1140
 agggtcacca ggccagagcc tccagtggtc tccaagcctc tggactgggg gctctcttca 1200
 gtggctgaat gtccagcaga gctatttctc tccacagggg gccttgccagg gaagggtcca 1260
 ggacttgaca tcttaagatg cgtcttgtcc ccttgggcca gtcatttccc ctctctgagc 1320
 ctcggtgtct tcaacctgtg aaatgggatc ataactactg ccttacctcc ctacgggttg 1380
 ttgtgaggac tgagtgtgtg gaagtttttc ataaactttg gatgctagtg tacttagggg 1440
 gtgtgccagg tgtctttcat ggggccttcc agaccactc cccacccttc tccccttct 1500
 ttgcccgggg acgccgaact ctctcaatgg tatcaacagg ctcttccgcc ctctggctcc 1560
 tttggggtat tgaatcccc ccgctccacc ctgcagcatc aaggttgcta tggactctcc 1620
 tgccgggcaa ctcttgcgta atcatgacta tctctaggat tctggcacca ctctcttccc 1680
 tggcccttta agcctagctg tgtatcgga cccccacccc actagagtac tccctctcac 1740
 ttgcggtttc cttatactcc acccctttct caacgggtct tttttaagc acatctcaga 1800
 ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggc cggccgc 1860
 1907

<210> 109
 <211> 611
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (21)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (47)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (607)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (610)
 <223> n equals a,t,g, or c

<400> 109
 atgaattaac gccaaagctnt naatagggac tcactatggg ggaaagntgg gtaacgcctg 60
 caggtaccgt tccggaattc ccgggtcgac ccacgcgtcc gatggggcct tagtaaatca 120
 ggcttgcagg ctcaaagctg caatctgccc actctcaggt actgagactt tgtgggcctc 180
 agacaccagg aagaaagtgt ggatacagtc atttgagtta aaaagggaat gaccctcag 240
 aaaccgcgat tagcagtgtt actcttgga gtgcctttac ttttaacgct ctctgttctg 300
 aaaaagaggt gtttggttac gtgtgagcca acatcacggt ttgttagctg tgatttacct 360
 ttgtccgttt aaaagacttc acggagccat tctgtataca aggtgtgctc tttccaatgt 420
 agaaggggtt atggaaaagg gtgcgatcct ttgctgtaaa ctggagagac cagtcctaaa 480
 cagaggggaa ttttaagccc ttctcatcac ccaattggat gtttttgctt atagcaaatt 540
 cctgcaaaat aaataaataa atatttgcaa aactaaaaaa aaaaaaaaaa aaaaaaaaaa 600
 ggggggncn c 611

<210> 110
 <211> 2632
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2620)
 <223> n equals a,t,g, or c

<400> 110
 tcccagctct caggacaagg gccctgggag atctttttaa aaagccgatt ggggtgtcttt 60
 ctaaaantac aaccagtact tcatcgctcaa gtttctggga agggagtccc ctccagattc 120
 tcatggagtg acaaatcttg actcttgctc ctggaatttt tcaggcccaa actagcgttt 180
 ctacaatgat ttatttggca aatttgtctt gattatgggt ggctgatgag gaacgtgctt 240
 ttgttaggaa ccgaaactgg gcggcgtgta gggcgtgtac gcaatgagtc cggaagaggg 300
 tgaaatgctt tcggtaggca ctccacggct gtgaagatgg cggcggctgc gtggcttcag 360
 gtgttgctct tcatctctct gcttctggga gctcaccctg caccactgtc gtttttcagt 420
 gcgggaccgg caaccgtagc tgctgccgac cgggtccaaat ggcacattcc gataccgtcg 480
 gggaaaaatt attttagttt tggaaagatc ctcttcagaa ataccactat ctctctgaag 540
 tttgatggag aaccttgtga cctgtctttg aatataacct ggtatctgaa aagcgtgat 600
 tgttacaatg aaatctataa cttcaaggca gaagaagtag agttgtattt ggaaaaactt 660
 aaggaaaaaa gaggttgtc tgggaaatat caaacatcat caaaattgtt ccagaactgc 720
 agtgaactct ttaaaacaca gaccttttct ggagatttta tgcacgact gcctctttta 780
 ggagaaaaac aggaggtcaa ggagaatgga acaaacctta cctttatttg agacaaaacc 840
 gcaatgcatg aaccattgca aacttggcaa gatgcacat acatttttat tgtacatatt 900
 ggcatttcat cctcaaagga atcatcaaaa gaaaattcac tgagtaatct ttttaccatg 960
 actgttgaag tgaagggtcc ctatgaatac ctcacacttg aagactatcc cttgatgatt 1020
 tttttcatgg tgatgtgtat tgtatatgtc ctgtttgggt ttctgtggct ggcattggtc 1080
 gcctgtact ggagagatct cctgagaatt cagttttgga ttggtgctgt catcttcctg 1140
 ggaatgcttg agaaagctgt cttctatgag gaatttcaga atatccgata caaaggaraa 1200
 tctgtccagg gtgctttgat ccttgagar ctgctttcag cagtgaacg ctcactggct 1260
 cgaaccctgg tcatcatagt cagtctggga tatggcatcg tcaagccacg cctggagtca 1320

10004850-120701

ctcttcataa	ggttgtagta	gcagragccc	tctatctttt	gttctctggc	atggaagggg	1380
tcctcagagt	tactggggcc	cagactgata	ttgcttcctt	ggcctttatc	cccttggtt	1440
tcctagacac	tgcttgtg	tggtggatat	ttattagcct	gactcaaaac	atgaagctat	1500
taaaacttcg	gaggaacatt	gtaaaactct	ctttgtatcg	gcatttcacc	aacacgctta	1560
ttttggcagt	ggcagcatcc	attgtgttta	tcactctggac	aacctgaag	ttcagaatag	1620
tgacatgtca	gtcggactgg	cgggagctgt	gggtagacga	tgccactctg	cgcttgctgt	1680
tctccatgat	cctctttgtc	atcatggttc	tctggcgacc	atctgcaaac	aaccagaggt	1740
ttgccttttc	accattgtct	gaggaagagg	aggaggatga	acaaaaggag	cctatgctga	1800
aagaaagctt	tgaaggaatg	aaaatgagaa	gtaccaaaac	agaacccaat	ggaaatagta	1860
aagttaacaa	agcacaggaa	gatgatttga	agtgggtaga	agagaatgtt	ccttcttctg	1920
tgacagatgt	agcacttcca	gcccttctgg	attcagatga	ggaacgaatg	atcacacact	1980
ttgaaaggtc	caaaatggag	taaggaatgg	gaagatttgc	agttazagat	ggctaccatc	2040
agggaagaga	tcagcatctg	tgtcagtcct	ctgtacggct	ccatgggatt	aaaggaagca	2100
atgacatcct	gatctgttcc	ttgatctttg	ggcattggag	ttggcgagag	gtgtcagaac	2160
aaagagaaca	tcttactgaa	aacaagttca	taagatgaga	aaaatctacg	agcttcttat	2220
ttacaacact	gctgccccct	tccctcccag	actctgacat	ggatgttcat	gcaacttaag	2280
tgtgttgttc	ctgaactttc	tgtaatgttt	catttttttaa	atctgacaaa	ctaaaaagtt	2340
taacgtcttc	taaaagattg	tcatacaacac	cataatatgt	aatctccagg	agcaactgcc	2400
tgtaattttt	atttatttag	ggagttacat	aggtgatggg	ggaaattgtt	aactaccttt	2460
cattttcctg	ggaagtcaag	gttacatctt	gcagagggtg	ttttgagaaa	aaagggccct	2520
tctgagttaa	ggagccatag	ttctatcaat	gatcaaaaga	aaaaaaaaaa	aactcgatcg	2580
gcacgagggg	gggcccggta	cccaattcgc	cctatgggan	tcgaatgaga	cc	2632

<210> 111
 <211> 2249
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1579)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2226)
 <223> n equals a,t,g, or c

<400> 111	
gaattcggca	cgagctcacc
tggaatttkt	ratggcoctc
ccctcttcac	tctgtgcggc
tcacagcctt	cctctctgtg
atgtcaagct	gcagcagggg
ccagcgctgg	gtcttcgtca
agccttcgag	gagaacacgc
ggccttcgag	gaggacgtgc
ggatgaacac	aatgcagctc
accagtgggc	agcttgggga
aactgagatg	gccgtcgtgc
aggaagamac	cttttggtgaa
ttgcctccct	ggctgtgtct
gcctcacagc	caggaaattt
tgacgaactg	aaaagctaac
taataccaga	ccaacctcaa
ggctcactgg	aaaatgtggc
aattcacagc	tggtgggcca
	gtgctgcgtg
	acacaaggcc
	agcctgcgcc
	tacgagccca
	60
	tggaatttkt
	ratggcoctc
	atctacgaca
	tggtactgsw
	tgtggtcacc
	ctggggctgg
	120
	ccctcttcac
	tctgtgcggc
	aagttcaaga
	ggtggaagct
	gaacggggcc
	ttcctctca
	180
	tcacagcctt
	cctctctgtg
	ctcatctggg
	tggcctggat
	gacctgtac
	ctcttcggca
	240
	atgtcaagct
	gcagcagggg
	gatgcctgga
	acgacccac
	cttggccatc
	acgctggcgg
	300
	ccagcgctgg
	gtcttcgtca
	tcttccacgc
	catccctgag
	atccactgca
	cccttctgcc
	360
	agccttcgag
	gagaacacgc
	ccaactactt
	cgacacgtcg
	cagcccagga
	tgcgggagac
	420
	ggccttcgag
	gaggacgtgc
	agctgccgcg
	ggcctatatg
	gagaacaagg
	ccttctccat
	480
	ggatgaacac
	aatgcagctc
	tccgaacacg
	aggatttccc
	aacggcagct
	tgggaaaaag
	540
	accagtgggc
	agcttgggga
	aaagacccag
	cgctccgttt
	agaagcaacg
	tgtatcagcc
	600
	aactgagatg
	gccgtcgtgc
	tcaacggtgg
	gacctccca
	actgctccgc
	caagtcacac
	660
	aggaagamac
	cttttggtgaa
	agactttaag
	ttccagagaa
	tcagaatttc
	tcttaccgat
	720
	ttgcctccct
	ggctgtgtct
	ttcttgaggg
	agaaateggg
	aacagtggcc
	gaaccaggcc
	780
	gcctcacagc
	caggaaattt
	ggaaatccta
	gccaagggga
	tttcgtgtaa
	atgtgaacac
	840
	tgacgaactg
	aaaagctaac
	accgactgcc
	cgccctccc
	ctgccacaca
	cacagacacg
	900
	taataccaga
	ccaacctcaa
	tccccgcaaa
	ctaaagcaaa
	gctaaatgca
	aatagtatta
	960
	ggctcactgg
	aaaatgtggc
	tgggaagact
	gtttcatcct
	ctgggggtag
	aacagaacca
	1020
	aattcacagc
	tggtgggcca
	gactgggtgt
	ggttggaggt
	ggggggctcc
	cactcttata
	1080

```

acctctcccc agcaagtgcg ggacccccagg tagcctcttg gagatgaccg ttgcgttgag 1140
gacaaatggg gactttgcca cgggctttgc ctgggtggtt gcacatttca ggggggtcag 1200
gagagttaag gaggttggtg gtgggattcc aaggtagggc ccaactgaat cgtgggggtga 1260
gctttatagc cagtagagggt ggagggaccc tggcatgtgc caaagaagag gccctctggg 1320
tgatgaagtg accatcacat ttggaaagtg atcaaccact gttccttcta tggggctctt 1380
gctctagtgt ctatggtgag aacacaggcc cgccecttc ccttgtagag ccatagaaat 1440
attctggctt ggggcagcag tcccttcttc ccttgatcat ctgccectgt tctacactt 1500
acgggtgtat ctccaaatcc tctcccaatt ttattccctt attcatttca agagctccaa 1560
tggggctctc agctgaaans ccctccggga ggcagggttg aaggcaggca ccacggcagg 1620
ttttccgcga tgatgtcacc tagcagggtc tcagggggtc ccactaggat gcagagatga 1680
cctctcgctg cctcacaagc agtgacacct cgggtccttt ccgttgctat ggtgaaaatt 1740
cctggatgga atggatcaca tgagggtttc ttgttgcttt tggagggtgt gggggatatt 1800
ttgttttggt ttttctgcag gttccatgaa aacagccctt ttccaagccc attgtttctg 1860
tcatggtttc catctgtcct gagcaagtca ttctttgtt atttagcatt tcgaacatct 1920
cggccattca aagcccccat gttctctgca ctgtttggcc agcataacct ctagcatcga 1980
ttcaaagcag agttttaacc tgacggcatg gaatgtataa atgagggtgg gtccttctgc 2040
agatactcta atcactacat tgctttttct ataaaactac ccataagcct ttaaccttta 2100
aagaaaaatg aaaaaggtta gtgtttgggg gccgggggag gactgaccgc ttcataagcc 2160
agtacgtctg agctgagtat gtttcaataa accttttgat atttctcaaa aaaaaaaaaa 2220
aaaaancccg gggggggggc cggacctgg 2249

```

```

<210> 112
<211> 2198
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (123)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (621)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (640)
<223> n equals a,t,g, or c

```

```

<400> 112
gatactataa ggcaagtgc tcacgggtgc gccgttagac tagtggtacc cgggtgcagg 60
aattcggcag agcgccgccg gagccgaagt gctggcgccc ccgcgccgcg tgctccgcg 120
gancccaaaa tcatgaaagt caccgtgaag accccgaaga aaaggaggaa ttcgccgtgc 180
ccgagaatag ctccgtccag cagtttaagg aagaaatctc taaacgtttt aaatcacata 240
ctgaccaact tgtgttgata tttgctggaa aaattttgaa agatcaagat accttgagtc 300
agcatggaat tcatgatgga ctactgttc accttgatcat taaaacacaa aacaggcctc 360
aggatcattc agctcagcaa acaaatacag ctggaagcaa tgttactaca tcatcaactc 420
ctaatagtaa ctctacatct ggttctgcta ctagcaaccc ttttggttta ggtggccttg 480
ggggacttgc aggtctgagt agcttgggtt tgaatactac caacttctct gaactacaga 540
gtcagatgca gcgacaactt ttgtctaacc ctgaaatgat ggtccagatc atggaaaawc 600
ccyttgttca gagcatgtc ntcaaactct gacctgatgn agacagttaa ttatggccaa 660
tccaaaatg gagcagtga tacagagaaa tccagaaaat tagtcatatg ttgaataatc 720
cagatataat gagacaaaag ttggaacttg cccaggaaat cagcaatgat gcaggagatg 780
atgaggaacc aggaccgagc tttgagcaac ctagaagca tcccaggggg atataatgct 840
ttaaggcgca tgtacacaga tattcaggaa ccaatgctga gtgctgcaca agagcagttt 900

```

ggtggttaatc catttgcttc cttggtgagc aatacatcct ctggtgaagg tagtcaacct 960
 tcccgtacag aaaatagaga tccactaccc aatccatggg ctccacagac ttcccagagt 1020
 tcatcagctt ccagcggcac tgccagcact gtgggtggca ctactggttag tactgccagt 1080
 ggcacttctg ggcagagtac tactgcgcca aatttgggtg ctggagtagg agctagtatg 1140
 ttcaacacac caggaatgca gagcttgttg caacaaataa ctgaaaaccc acaacttatg 1200
 caaaacatgt tgtctgcccc ctacatgaga agcatgatgc agtcactaag ccagaatcct 1260
 gaccttgctg cacagatgat gctgaataat cccctatttg ctggaaatcc tcagcttcaa 1320
 gaacaaatga gacaacagct cccaactttc ctccaacaaa tgcagaatcc tgatacacta 1380
 tcagcaatgt caaaccttag agcaatgcag gccttggtac agattcagca gggttttacag 1440
 acattagcaa cggaagcccc gggcctcatc ccagggttta ctctgggctt gggggcatta 1500
 ggaagcactg gaggctcttc gggaaactaat ggatctaacy ccacacctag tgaaaacaca 1560
 agtcccacag caggaaccac tgaacctgga catcagcagt ttattcagca gatgctgcag 1620
 gctcttgctg gagtaaatcc tcagctacag aatccagaag tcagatttca gcaacaactg 1680
 gaacaactca gtgcaatggg atttttgaac cgtgaagcaa acttgcaagc tctaatagca 1740
 acaggagggtg atatcaatgc agctattgaa aggttactgg gctcccagcc atcatagcag 1800
 cttttctgta tctkgaaaaa atgtaattta tttttgataa cggtctcttaa acttttaaaat 1860
 acctgcttta tttcattttg actcttgga tttctgtgctg ttataaacia acccaatatg 1920
 atgcatttta aggtggagta cagtaagatg tgtgggtttt tctgtatttt tctttttctg 1980
 aacagtggga attaaggcta ctgcattgat cacttctgca tttattgtta ttttttaaaa 2040
 acatcacctt ttatagttgg gtgaccagat tttgtcctgc atctgtccag tttatttgcg 2100
 ttttaaacat tagcctatgg tagtaattta tgtagaataa aagcattaaa aagaagcaaa 2160
 aaaaaaaaaa aaaaattcct gcgcccgcga attcttct 2198

<210> 113
 <211> 1043
 <212> DNA
 <213> Homo sapiens

<400> 113
 ctgaagtgtg tgtggtgagg aagaagaggc tctactgtga gacagccttg ttctacagat 60
 cctcccagaa atctctgggc caggtggaac ccagggtcag agagggatgg gagagaggtt 120
 taattttcca tgataaataa aaatctataa aataataaac aagagaaaag agattggaaa 180
 cagccagggt ggagcagtga gtgagtaagg aaacctggct gccctctcca gattccccag 240
 gctctcagag aagatcagca gaaagtctgc aagaccctaa gaaccatcag cctcagctg 300
 cacctcctcc cctccaagga tgacaaaggc gctactcacc tatttggtca gcagctttct 360
 tgccctaaat caggccagcc tcatcagtcg ctgtgacttg gccaggtgc tgcagctgga 420
 rgacttggat ggggtttgagg gttactccct gagtgactgg ctgtgcctgg cttttgtgga 480
 aagcaagttc aacatatcaa agatwaatga aaatgcagat ggaagctttg actatggsct 540
 cttccagatc aacagccact actggtgcaa crattataag agttactcgg aaaacctttg 600
 ccacgtagac tgtcaagatc tgctgaatcc caaccttctt gcaggcatcc actgcgaaa 660
 aaggattgtg tccggagcac gggggatgaa caactgggtt agaatggaag kttgactgt 720
 tcaggccggc cactcttcta ctggctgaca ggatgccgcc tgagatkaaa cagggtgcgg 780
 gtgcaccgtg gartcattcc aagactcctg tctcactca rggattcttc atttcttctt 840
 cctactgcct ccacttcatg ttattttctt ccttctccat ttacaactaa aactgaccag 900
 agccccagga ataaatgggt ttcttggtct cctccttact ccatcttgga ccagtcctcc 960
 tggttcctgt ctgttatttg taaactgagg accacaataa agaaatcttt atatttatcg 1020
 aaaaaaaaaa aaaaaaaaaa cga 1043

<210> 114
 <211> 703
 <212> DNA
 <213> Homo sapiens

<400> 114
 gaattcggca cgagtgcgcg ggcaccacgg cggtttttctg acgctggcgg tggacgcagg 60
 cagcatggac caggttgct gggcggatgg ggagcgtcta tggtcagttg ccttagaagt 120

10004360-120701

```

ggtgagatgg gaagctgcag ttggaagacc ctggaggatg cctgacaagg ggatgtctga 180
cacatgattg gagctctttt tgaaatgttt cttgcccttc ctggagcaga ggagccatta 240
tttatgcagg tacatcgaag tcttttgacc tccatacagt gattatgctt gtcacgcgtg 300
gtgggtatcct ggcggccttg ctccctgctga tagttgtcgt gctctgtctt tacttcaaaa 360
tacacaacgc gctaaaagct gcaaaaggaac ctgaagctgt ggctgtaaaa aatcacaacc 420
cagacaaggt gtgggtgggcc aagaacagcc aggccaaaac cattgccacg gagtcttgtc 480
ctgccctgca gtgctgtgaa ggatatagaa tgtgtgccag ttttgattcc ctgccacctt 540
gctgttgcca cataaatgag ggcctctgag ttaggaaagg tgggcacaaa aatcttcatg 600
agcaatactt cttagtagat tgttttgtta ttcaaataca gttctagtgt ttttatgtga 660
gattatataa ttacagtggt tgttttatat acttttgaat aaa 703

```

<210> 115

<211> 3684

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2297)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (3679)

<223> n equals a,t,g, or c

<400> 115

```

ggcagagggg gcatgagcag gaggaggatt accgctacga ggtgctcacg gccgagcaga 60
ttctacaaca catggtggna atgtatccgg gaggtcaacy aggtcatcca gaatccagca 120
actatcacaa gaatactcct tagccacttc aattgggata aagagaagct aatggaaagg 180
tactttgatg gaaacctgga gaagctcttt gctgagtgtc atgtaattaa tccaagtaaa 240
aagtctcgaa cagccagat gaatacaagg tcatcagcac aggatatgcc ttgtcagatc 300
tgctacttga actaccctaa ctcgatattc actggccttg aatgtggaca taagttttgt 360
atgcagtgct ggagtgaata tttaactacc aaaataatgg aagaaggcat gggtcagact 420
atttcgtgtc ctgctcatgg ttgtgatata ttagtggatg acaacacagt tatgcgcttg 480
atcacagatt caaaagttaa attaaagtat cagcatttaa taacaaatag ctttgtagag 540
tgcaatcgac tgttaaagtg gtgtcctgcc ccagattgcc accatgttgt taaagtccaa 600
tatcctgatg ctaaacctgt tcgctgcaaa tgtgggcgcc aattttgctt taactgtgga 660
gaaaattggc atgatcctgt taaatgtaag tggttaaaga aatggattaa aaagtgtgat 720
gatgacagtg aaacctccaa ttggattgca gccaacacaa aggaatgtcc caaatgccat 780
gtcacaattg agaaggatgg tggttgtaat cacatggtct gtcgtaacca gaattgtaaa 840
gcagagtgtt gctgggtgtg tcttggccca tgggaaccac atggatctgc ctggtacaac 900
tgtaaccgct ataatgagga tgatgcaaag gcagcaaga atgcacagga gcgatctagg 960
gcagccctgc agaggtacct gttctactgt aatcgctata tgaaccacat gcagagcctg 1020
cgctttgagc acaaactata tgctcaggtg aaacagaaaa tggaggagat gcagcagcac 1080
aacatgtcct ggattgaggt gcagttcctg aagaaggcag ttgatgtcct ctgccagtgt 1140
cgtgccacac tcatgtacac ttatgtcttc gctttctacc tcaaaaagaa taaccagtcc 1200
attatctttg agaataacca agcagatcta gagaatgcca cagaggtgct ctcggtctac 1260
cttgcaacgag atatttccca agattctctg caggatataa agcagaaaagt acaagacaag 1320
tacagatact gtgagagtcg acgaagggtt ttgttacagc atgtgcatga aggctatgaa 1380
aaagatctgt gggagtacat tgaggactga gaatggccct gcataaaatg aactctgaaa 1440
actttaccat ctagagtgtc catgcaatta aaacaaaaca aacacaaaca aggaggcact 1500

```

10004550-120701

aagcctattc tgacaccact ggtctgtagt accagaattg ttttgttaat ggaaagttaa 1560
agtaaaattat attgtaataa aaaggtagat aaaccattgt acaacagtat tctaggccgc 1620
caacaaaagt gtgacagaca cactaaaagc cctccaactt taacttgtaa cgtagcttca 1680
ttctcaaagc tgactccttt tttttctttt tccttttctt gagtgtagta cagttaaaat 1740
ttcaaacagc tccttgacac tgcttttcat gttcaaacca gccattttgt tgtacttttg 1800
taaaggacct cttcccttcc ctcccttaca catacagata caccacacac cagactgact 1860
ctcttttctt cataccccaa ggtcatgagt gaatgatgct tagttccttg taaagaaaat 1920
cttgggatgg ggaaaggggt aggcagcaag aggattcaac aaacgaaaaa cataaaaact 1980
ttgtatatga ctttttaaac aagaggacaa cacagtattt ttcaaaaattg tatatagcgc 2040
atatgcatgg acaaagcaag cgtggcacgt gtttgcataa tgtttaatta caaaaaata 2100
tttattcttt aaaaatcttc aagattatgt ctatttgctg tgcattttct ttcagtttgc 2160
ttatctttcc cgggttgggg ttgggataaa ggtgtgtcgg tttagcacct ctggaagacc 2220
tatctagagc tctttcactt tectgaggtt attttgccc y tcttggtgtt ggtatgtctg 2280
ttgccggcca tgggctncay gcctgaatt cctgctcttg atcagggaca agggaggtca 2340
agctctgact aatgccatga cctgatttaag ggttacagca gggagttttg ttgctacagc 2400
tcatgaatta acctgtccca acctaattccc cctccatggc atcatgcctc taccacagcc 2460
tttgtgtgcc catgttatgc acacagctgt aggcattctt aagtccctg tcgcatccag 2520
tggaagcatt ttaaaatttc ttttactttt tggttttccc ttaattgctg cttttcagat 2580
tttagttatg gctcgtctgc tcacccttcc tctacattag ggtgtcaaag agaattgttt 2640
gctttaaata taaatagcca ttcatttagt ctcagattgt gaatttaaaa tgggtgatac 2700
cgaaattgct tgtgtgtgtt gctgtgggtt tggtttgaag gcaaacaccc ctagaacatg 2760
atattcccat ctagtgcat taaatagaaa tcaactgagtt tgctgctttt ttattgtcag 2820
cagataggag aattaataat gcatttttagc tgtgatgtcc atttttatga aattcctact 2880
aagagctatg ttaaaagtaa aggatgggtg tggttgtatt aactatatac ctgtttaggc 2940
cattctggct gtggtatttt tcaataggtc agcatctgta aatctgtcag ttttatacag 3000
gagtcagag tgaactagga aactagatta agaggtctaa atatgaaata ccagttgagg 3060
ctgaggacct cttcgtcttc ctttaaatgt cttttgccta gggagtgttt accatttgtg 3120
aggcagcttt gtctgtcttc acactgtaca tccattact ccattgggaa gtaggttcac 3180
tttctctggt ccttttgctt aagttaggct ttgctgaatc aaccctactt ttccttttag 3240
aaaaggttgt tacaggagat ttactggcaa ctggttctttt cccatcaaaa atcagtgaat 3300
gtttgctgag tataaatgct gcttccttaa accacttgct gctttaggat caactttacc 3360
tgtacctttt ctcccttctc cccttgccac ctcagggtgca aatctgaact cagtgtctgc 3420
ttcttccatt ttctcgtctc tctccctctc tccccatta tccatagac attattttac 3480
ttcaaatgac agcatcaatc ttaaaaagat atacattaaa actaaggagt ttttttaaag 3540
aaagcctgaa taagttcctt tccctggtaa ctttgaaaag cagtcagagt tgctatatag 3600
atatatgtgg ctcttttaa atgctttgtg tatgtgtggt gtttaaaaaa aaaaaaaa 3660
ttcggggggg ggcccggtnc ccat. 3684

<210> 116
<211> 1965
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (476)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1136)
<223> n equals a,t,g, or c

<400> 116
aagaaaagggt attaaaaattc tagatcacat atggaccocgg gaagggttttt naccctctgt 60
tagtgacatc gagtctccca ctagacaaaa taggtggaaa aatctctcga gggctcacat 120
tgttttgtca tcttcaggaa aaacaccacc aggccatacc acagcctgcc cagttagggc 180
gtctttgcca acagcaccgg gatgctgggt gtggcctttg ggctgctggg gctctacatc 240
cttctggctt catcttggaa gcgcccagag ccggggatcc tgaccgacag acagcccctg 300
ctgcatgatg gggagtgaag cagcaggaag gggctcccaa gagctcctgg tggtagcagcc 360
tgtgctcccc tcagaagctc tgctcttccc agggctcccc gctggtttca gcaggcgact 420
ttcttccaat gctggggcca gacttcttgc ctgggtgctg gcctgccctc tccggncctg 480
ttgctgctgt tctgctttcc ttgggtggyt tgctgggtgc tgggcctgcc ctctccggcc 540
gcttgctgcc tgtctgcttt ccttgggtggc tttgctgggt gctgggcctg ccttctctgg 600
ctgcttgctg cctgtctgct tctcttgggt gctttggctt ctgactcct tggcgctcasc 660
tctcaggtcc tccattcaca cgaggtctc ctcgctctgg ccgctcttgc tgctcctgtc 720
tgaagawac agactgattt cctcttaaga ctcttaggga tgtggtgaag agctgggact 780
caagtgcagt ccacgggtgtg aaacatgagg gargtgagg gtccgtccac ttcccccata 840
aagggtgtgca tttcagttag gctgccccgc cacagagcag gcttcatctg ctctgccatc 900
cagccccatc tggatgtgag gtgggggtgga gacatcatgg ggtgattgca gaaaggggga 960
gtggcgggcc acgcagcttc tgctgaggag ctgaccgctc tgagctgttc tgtttogtat 1020
tgctgctctg tgtctgcatg tattgtgacc gtgcggctcc acctcttcca gctgctgcta 1080
cagctgaggc ctggatcccc gcctttccct gtgacttacg tgtctgtcac cggcangcag 1140
ccctacaaat cctgggtgacc tgctctccca agaacagagc ctgtccccag atgtcccagt 1200
agcgatgagt aacagaggtg gctgtggact tctctactt ctccttgctg gatcagggcc 1260
ttctgctc ccgctgggca ggtctggcct tgctctcttg gcaggggccc agcccctctg 1320
accactctgc agctcaccat gcagctgatg ccaaagtgt ggtgtccagt gtgcagcagc 1380
cctgggagcc actgccacct tcagaggggt tcttggctga gaccacatt gcttcacctg 1440
gccccaccat ggctgcttgc ctggcccac ctagegttct gtgccatgct agagcttgag 1500
ctgttgctct tcttcagggg aggaaatagg gtggagagcg ggaagggctc tgctcctaag 1560
tggtgctgct gtggcttttt tgcttctcc aaagacgcac tgccaggctc caagcttcag 1620
actgctgtgc ttagtaagca agtgagaagc ctgggggttg gagccacct actctctggc 1680
agcatcagca tctactcct ggcaacatca ggccaacgtc caccacagcc tcacattgcc 1740
agatgttggc agaagggcta atattgaccg tcttgactgg ctggagcctt caaagccact 1800
gggatgtcct ccaggcacct ggggtccatg accagctccc cgtctccata ggggtaggca 1860
tttactgggt ttatgaagct cgagtttcat taaatatgtt aagaatcaaa gctgtctttg 1920
ttcaggctgc tataacaaaa atataatagc ctgggtggct taaac 1965

<210> 117
<211> 503
<212> DNA
<213> Homo sapiens

<400> 117
agtgatcccc ttgctctggc ctcccaaaat gctggaattg taagcgtggg cctctgcacc 60
cggcctgggt cgcaatttaa aaacgcacag ccaccattcc ctytccagaa agcaccaga 120
tgcttttggg agaaccagcc tcttccatgg aggaaagctt gggatctgcc ttcccacctg 180
gggaggagag ggatctgtgg aaaatccttc tgacggactt cccctcagtg cctgatccat 240
actcaatagt agaaaaagta agaaatatac aaagatagca gatacacgga gacagttccc 300
caaatagctg agcgawtagc gcagaagcaa tattgaagac ctaatagctg agacatttcc 360
agaactgata aagtgcattc agccacagat caagcagccc agaaaattcc aggcagcatc 420
aacaataaaa tagccccaca tgcaccogtg aaatgacaga agaccacaaa aaaaagtccg 480
gtcaacagcc agagttaaag agg 503

<210> 118
<211> 1071
<212> DNA
<213> Homo sapiens

<400> 118
 tcgacccacg cgtccggtca ctcccaagat ggcggaccta ctgggctcca tcttgagctc 60
 catggagaag ccacccagcc tcggtgacca ggagactcgg cgcaaggccc gagaacaggc 120
 cgcccgccctg aagaaactac aagagcaaga gaaacaacag aaagtggagt ttcgtaaaaag 180
 gatggagaag gaggtgtcag atttcattca agacagtggg cagatcaaga aaaagtttca 240
 gccaatgaac aagatcgaga ggagcatact acatgatgtg gtggaagtgg ctggcctgac 300
 atccttctcc tttggggaag atgatgactg tcgctatgtc atgatcttca aaaaggagtt 360
 tgcacctca gatgaagagc tagactctta ccgtcgtgga gaggaatggg accccagaa 420
 ggctgaggag aagcggaagc tgaaggagct ggcccagagg caagaggagg aggcagccca 480
 gcagggggctg gtggtgtga gccctgccag cgactacaag gacaagtaca gccacctcat 540
 cggcaaggga gcagccaaag acgcagccca catgctacag gccataaga cctacggctg 600
 tgtgccctg gccataaga gggacacacg ctccattgaa gaggctatga atgagatcag 660
 agccaagaag cgtctgcggc agagtgggga agagttgccg ccaacctcct aggcgccccg 720
 cccagctccc tttgacctt ggggcagggc agggggcagg gagagacaag gctgctgcta 780
 ttagagccca tcttgagacc ccacctctga accacctcct accagctgtc cctcaggctg 840
 ggggaaaaca ggtgtttgat ttgtcacctg tggagcttgg atatgtgcgt ggcattgtgtg 900
 tgtgtgtgtg agagtgtgaa tgcacagggt ggtatttaaat ctgtattatt ccccgttctt 960
 ggaattttct tycccatggg gctggggtac tttacattca ataaatactg tttaacccaa 1020
 aaaaaaaaaa aaaaaaaraaa raaaaaaaaa aaaaaaaaaa aaaaaaaaag g 1071

<210> 119
 <211> 1101
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (147)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (376)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (395)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1101)
 <223> n equals a,t,g, or c

<400> 119
 gggcacagct gaagctgcag acctccccag gggatggctc ctctcccca ggagccccga 60
 ggcaggggag gcagaaagcc tgggctctgg ggggtggcct gcggacagct gtgctgtggg 120
 ccgggggctg ggctgtccc acaggngcgt ggagctcgtg gttctgagca gccagctggg 180
 tgggtgtctg ggatagctgg gaggcacagc ggctgccatg tgggactggg actggagtgc 240
 tccctggtct tggcctctgt ggctcagcct tgctctggtc tgccctgagt caggggcca 300
 ggggcacagg gccagtgagg ccggccacgc tcgggcccct accctgtgaga tggggtcgga 360
 atttkacaca gccatangct tggttcttgg tkgtngamcg tggactyctk agaacgggag 420
 tgctggtoct gaaagcgctg gttggagacc agctgctttt ctgctgttt ttctcttagg 480
 agattaaaca aaaacagaaa gcacaagacg aactcagtag cagaccccag actctccct 540
 tgccagacgt gggtccagac ggggagacgc acctcgtcca gaacgggatt cagctgctca 600

acgggcatgc	gccgggggccc	gtcccaaacc	tgcagggct	ccagcaggcc	aaccggcacc	660
acggactcct	gggtggcgcc	ctggcgaact	tgtttgtgat	agttgggttt	gcagcctttg	720
cttacacggg	caagtacgtg	ctgaggagca	tgcgcagga	gtgaggccca	ggcgccgaga	780
cccaaggcgc	caactgaggg	accgcgcacc	agagcgtgac	ctcggcaggc	tggacacact	840
gcccagcaca	ggcagaccca	ccaggctcct	aggtttagct	tttaaaaacc	tgaagggga	900
agcaaaaacc	aaaatgtgtg	actgggcttt	ggaggagact	ggagcctcag	ccctgtcctg	960
gccacggggc	gctggggctg	gtgtgggtgg	gccttgtgtg	ctggatttgt	agcttatctt	1020
ccgtgttgtc	tttggacctg	tttcagtaaa	cccgtttttc	attttaaaaa	aaaaaaaaaa	1080
aaactttggg	ggggggcccc	n				1101

<210> 120

<211> 282

<212> DNA

<213> Homo sapiens

<400> 120

agctttctctg	tccagtcttg	aactctgggs	tctcttgga	ctttcctcac	ccctctcagc	60
ctgaatatct	cttccatgga	ttccactcaa	ccagactttg	gatctgtgcc	tacttaataca	120
accttatctt	tgaatatgt	tcgggcccac	cttccactcc	ttggttcttg	ttcctccttg	180
gcctaacttg	tcccttctcc	acttcacatc	cccgttgga	cagcattcct	ccttcctccc	240
aacctccctc	cgtctcaraa	aaaaaaaaaa	aaaaaaaaaa	tt		282

<210> 121

<211> 2635

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2605)

<223> n equals a,t,g, or c

<400> 121

taaggggggtg	tgtgtctacc	tctcctgac	ccttaacact	cctgtcctgc	ccagaccaac	60
agagagagct	gtccctgaga	ccccggagag	aagcagctgc	cgaaagctgc	agcctttccg	120
cactctgaga	ccatgatctt	cctcctgcca	ggggagagcc	accacaggc	catgtccagc	180
cccacttccc	tcagccccc	gggyttcctt	ctggcccttc	tgaggattcc	ctagggctgc	240
cccgagagg	ggyttcccca	agctctgttt	tgaagcctgc	aatgtggaaa	agtgagaagt	300
cagaggggaa	aggacaggtg	cagccgggct	ctgaggccac	acctcacacc	tcgtgtttcc	360
ccaacatccc	ctgagcagtg	tgagctcatc	tcaccagatg	agaagaggcc	ctgtgcattt	420
yttttgtttg	tttgttgctg	ttttccccc	cccatccagt	tctcctcagc	aaagcaaatt	480
ccttaacacc	tttgggtggag	aatttcttac	ccagacttgg	ggctgtgatg	cccttcagtg	540
cgtgggtgag	gcagcgtgtg	tgcgtgtgcc	tgtgtgtgaa	cctggggggc	atcctggtgg	600
cctggggagcg	tgaggagagg	ccccctgtgt	gctgggtgag	tgggtgggtg	ggggtcaatg	660
cagtgaggct	ctctgggtga	ggctcccaac	ctggcagctc	ccagcctccc	agcatctgtg	720
agcgtctgtt	ggactttaca	gaagagcctc	atccygtctg	cccctcactc	tgccctggaa	780
tcaacatctt	ccgagtcctt	cttgggggaa	atagcagagc	cccacttaac	tccataaaact	840
gcttcccat	ccgcagccca	gttctgattg	ttgagggtgc	gcgtcgttcc	aggtccccc	900
gtccctctt	tctcctgtcc	tctctctgtc	cttcacctcc	ccactccagc	ccgggtcag	960
ttcagggaaa	tgctgtttcca	yatcagccct	ctgctctctg	aggcagccgc	gcctctgact	1020
cggagctact	tgaaacttct	gctcttgcta	ggattggagt	ctacctatct	cttccatttg	1080
tcccagctgg	agttctggaa	ctttcctcct	cgggggtggg	gtgggggttg	ttaaggatgc	1140
tggggggcct	ggggaaggaa	ggagttcaga	ggaagggtgt	ccctgtcct	cttgatgtca	1200
ccctccgctc	ctgggacacg	tgctctctct	gtctctgggt	cttctggctg	tgcacgtttg	1260
tgtgtccttg	ttaaatagtt	ttaggaagaa	agcaaaagg	actgaactag	cctctggtag	1320
gattgcaggg	gtccagcctt	gcctgtttcc	gaagccccc	cactgccttt	cgccccactg	1380

J0004860.120701

agactgggtcc cctcaaaagg tagacaaaac agcagctccc tgtggagctg aagggcggcc 1440
 tcaaagtggc tttttgttag acaaggttta ggtttcctca tgagcaaggt tgcagatcgg 1500
 tccttcctca gctccttgat ttgtgacctt gaccaagggg cctgccaccc agccctcca 1560
 gtgccctctc ctgatgcct cgctccttcc tgccccact cccctggctt aggcaggtag 1620
 gggaaattagg gccatgctgg aagaagctta accatgtgtt caaagaacgg tttcttgctt 1680
 gcttggtcct ggaactcccc ttggctgccc caggcctcct tggcccatgg gtgctggggg 1740
 aggtggatgt cagatctggt aggttgcagc agagaaaata aatgtgcctt gagagaccac 1800
 tcagagaggg tccaagggtg atggagaagg aagcatggcc tgggagcttg gaagggargg 1860
 gtggtgggtg gggcatctt gactgcccc tgttgctcca cactggggg gtggtcacc 1920
 cycttcactc cagcccgctt gccttcagcc ttccatgagc ttcacctgct tccaacttca 1980
 ctttgagggg ggtgggggtc gttggcatca acacggggac cctctgcttc accaaagccc 2040
 gagccctcag cccctgggga gaacaaatgg ctgagctttg atacctgggg tcgtcgagag 2100
 gctgcgggct ggcggcagtc ccaggggaga gacaccacag aaggagaccc agacatccc 2160
 aggaagtcc cagcagagca aactgctttc cagcctgaag cctgcttaaa ctgtgtgatg 2220
 tgcaataact gagcttagag ttaggaattg tgttcaagt cttggatttc cgtctgtaga 2280
 ttttaactgct gaaattgtat ctctcagtaa ttttagatgt cttttaaaaa attgaaaaac 2340
 aaagtgttag actgtgtgcy tgtgcgttga tgggactca agagtcccg gagtcacca 2400
 gccctgcctt tcccctgcgc ccccatcctc tcacgtcccg cccygcctcc acttggggac 2460
 cctgcctcgt gtgctcttta tctgcctatt actcagccta aggaaacaag tacactccac 2520
 acatgcataa aggaaatcaa atgttatatt taagaaatg gaaaataaaa actttataaa 2580
 caccaaaaaa aaaaaaaaaa acccnggggg ggggccggta acccatttcg cctaa 2635

<210> 122
 <211> 994
 <212> DNA
 <213> Homo sapiens

<400> 122
 gaattcggca gaggttcggc gaagataggg aataaggaag cacaggagta ggggagaagg 60
 aagcacagga gtaggggaga tatacagcgg tcaggataag ggggaaaggg cgggtggttg 120
 scaagaggtg aaacaagatg tgagagacaa ggggtagggg agaaatgggg cagcggttag 180
 gttcagaagc gcatagaccg tggcggacgg gcaatgcgag gggcacagaa aggaactgag 240
 ggggtgggcta ttttaargga gatggtcctt cagccctctt yttttctgcy tagttctcct 300
 cctccaggcc gcgcgcggat atgtcgtccg gaaaccagcc cagtctaggc tggatgatga 360
 cccacctcct tctacgctgc tcaaagacta ccagaatgtc cctggaattg agaaggttga 420
 tgatgtcgtg aaaagactct tgtctttgga aatggccaac aagaaggaga tgctaaaaat 480
 caagcaagaa cagtttatga agaagattgt tgcaaaccca gaggacacca gatccctgga 540
 ggctcgaatt attgccttgt ctgtcaagat ccgcagttat gaagaacact tggagaaca 600
 tcgaaaggac aaagcccaca aacgctatct gctaattgagc attgaccaga ggaaaaagat 660
 gctcaaaaac ctccgtaaca ccaactatga tgtctttgag aagatatgct gggggctggg 720
 aattgagtac accttcccc ctctgtatta ccgaagagcc caccgccgat tcgtgaccaa 780
 gaaggctctg tgcattcggg ttttccagga gactcaaaag ctgaagaagc gaagaagagc 840
 cttaaaggct gcagcagcag cccaaaaaca agcaaaagcg aggaaccag acagccctgc 900
 caaagccata ccaaagacac tcaaagacag ccaataaatt ctgttcaatc atttaaaaaa 960
 aaaaaaaaaa aaaaaaaaaa aaaaagggga gggg 994

<210> 123
 <211> 1542
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1445)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1515)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1520)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1535)
 <223> n equals a,t,g, or c

<400> 123

ggcasagcca	cctcggcccc	gggctccgaa	gcggtcggg	ggcgcccttt	cggtcaacat	60
cgtagtccac	cccctcccca	tccccagccc	ccggggattc	aggctcgcca	gcgcccagcc	120
agggagccgg	ccgggaagcg	cgatgggggc	cccagccgcc	tcgctcctgc	tcctgctcct	180
gctgttcgcc	tgctgctggg	cgcccggcgg	ggccaacctc	tcccaggacg	acagccagcc	240
ctggacatct	gatgaaacag	tggtggctgg	tggcaccgtg	gtgctcaagt	gccaagtga	300
agatcacgag	gactcatccc	tgcaatggtc	ttaaccctgc	tcagcagact	ctctactttg	360
gggagaagag	agcccttcga	gataatcgaa	ttcagctggt	tamctctacg	ccccacgagc	420
tcagcatcag	catcagcaat	gtggccctgg	cagacgaggg	cgagtacacc	tgctcaatct	480
tcactatgcc	tgtgcgaact	gccaagtccc	tcgtcactgt	gctaggaatt	ccacagaagc	540
ccatcatcac	tggttataaa	tcttcattac	gggaaaaaga	cacagccacc	ctaaactgtc	600
agtcttctgg	gagcaagcct	gcagcccggc	tcacctggag	aaagggtgac	caagaactcc	660
acggagaacc	aaccgcata	caggaagatc	ccaatggtaa	aaccttcact	gtcagcagct	720
cggtgacatt	ccaggttacc	cgggaggatg	atggggcgag	catcggtgac	tctgtgaacc	780
atgaatctct	aaagggagct	gacagatcca	cctctcaacg	cattgaagtt	ttatacacac	840
caactgcgat	gattaggcca	gaccctcccc	atcctcgtga	gggccagaag	ctgttgctac	900
actgtgaggg	tcgcggaat	ccagtcccc	agcagtacct	atggggagaag	gagggcagtg	960
tgccaccctc	gaagatgacc	caggagagtg	ccctgatctt	ccctttcctc	aacaagagtg	1020
acagtggcac	ctacggctgc	acagccacca	gcaacatggg	cagctacaag	gcctactaca	1080
ccctcaatgt	taatgacccc	agtcgggtgc	cctcctcctc	cagcacctac	cacgccatca	1140
tcggtgggat	cgtggctttc	attgtcttcc	tgctgctcat	catgctcate	ttccttggcc	1200
actacttgat	ccggcacaaa	ggaacctacc	tgacacatga	ggcaaaaggc	tccgacgatg	1260
ctccagacgc	ggacacggcc	atcatcaatg	cagaaggcgg	gcagtcagga	ggggacgaca	1320
agaaggaata	tttcatctag	aggcgcttgc	ccacttcctg	cgccccccag	ggccctgtgg	1380
ggacttgctg	gggcccgtcac	caaccgggac	ttgtacagag	caaccgcagg	ggccgscctt	1440
cccgnittgt	ccccagccca	cccacccctt	tgttacagaa	tgtytkgttt	ggggtgcggg	1500
tttgtwattg	gtttnggatn	ggggaagggg	ggganggcgg	gg		1542

<210> 124
 <211> 1390
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (498)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (499)
 <223> n equals a,t,g, or c

10004560.120701

<400> 124

caagctctaa	tacgactcac	tataggga	gctgggtacgc	ctgcaggtac	cgggtccggaa	60
ttccccgggtc	gacccacgcg	tccgggcctc	aggggtggacg	catgggttctg	cactgaggcc	120
ctcgtcatgg	tggcgctgt	gtgggtacttg	gtagcggcg	ctctgctagt	cggctttatc	180
ctcttctctga	ctcgcagccg	gggcccggcg	gcatcagccg	gccaagagcc	actgcacaat	240
gaggagctgg	caggagcagg	cggggtggcc	cagcctgggc	ccctggagcc	tgaggagccg	300
agagctggag	gcaggcctcg	gcgcgggagg	gacctgggca	gccgcctaca	ggcccagcgt	360
cgagcccagc	gggtggcctg	ggcagaagca	gatgagaacg	aggaggaagc	tgatcatccta	420
gcccaggagg	aggaaggtgt	cgagaagcca	gcggaaaytc	acctgtcggg	gaaaattgga	480
gctaagaaac	tgcggaannt	ggaggagaaa	caagcgcgaa	aggcccagck	tgaggcagag	540
gaggctgaac	gtgargwgcg	gaaacgactc	gagtcccagc	gcgaatgagt	ggaagaagga	600
ggaggagcgg	cttcgccttg	aggaggagca	gaaggaggag	gaggagagga	aggcccgcga	660
ggagcaggcc	cagcgggagc	atgaggagta	cctgaaactg	aaggaggcct	ttgtggtgga	720
ggaggaaggc	gtaggagaga	ccatgactga	ggaacagtcc	cagagcttcc	tgacagagtt	780
catcaactac	atcaagcagt	ccaaggttgt	gctcttggaa	gacctggctt	cccagggtggg	840
cctacgcact	caggacacca	taaatcgcat	ccaggacctg	ctggctgagg	ggactataac	900
aggtgtgatt	gacgaccggg	gcaagttcat	ctacataacc	ccagaggaac	tggccgcctg	960
ggccaacttc	atccgacagc	ggggccgggt	gtccatcgcc	gagcttgccc	aagccagcaa	1020
ctccctcatc	gcctggggcc	gggagtcccc	tgcccaagcc	ccagcctgac	cccagtcctt	1080
ccctcttggga	ctcagagttg	gtgtggccta	cctggctata	catcttcatc	cctccccacc	1140
atcctgggga	agtgatggtg	tggccaggca	gttatagatt	aaaggcctgt	gagtactgct	1200
gagcttgggtg	tggcttgggtg	tggcagaagg	cctggcctag	gatcctagat	aagcaggtga	1260
aatttaggct	tcagaatata	tccgagaggt	ggggagggtc	ccttggaagc	tggtgaagtc	1320
ctgttcttat	tatgaatcca	ttcattcaag	aaaatagcct	gttgcaaaaa	aaaaaaaaaa	1380
aaaaactcga						1390

<210> 125

<211> 1288

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1286)

<223> n equals a,t,g, or c

<400> 125

ggcgcgcggg	tgaaaggcgc	attgatgcag	cctgcggcgg	cctcggagcg	cggcggasca	60
gacgctgacc	acgttcctct	cctcgggtctc	ctcgcctcc	agctccgcgc	tgcccggcag	120
ccgggagcca	tgcgaccca	gggccccgcc	gcctccccgc	agcggctccg	cggcctcctg	180
ctgctcctgc	tgctgcagct	gcccgcgcgc	tcgagcgctt	ctgagatccc	caagggaag	240
caaaaggcgc	atccggcaga	gggaggtggt	ggacctgtat	aatggaatgt	gcttacaagg	300
gccagcagga	gtgcctggtc	gagacgggag	ccctggggcc	aatggcattc	cgggtacacc	360
tgggatccca	ggtcgggatg	gattcaaaag	agaaaagggg	gaatgtctga	gggaaagctt	420
tgaggagtcc	tggacaccga	actacaagca	gtgttcattg	agttcattga	attatggcat	480
agatcttggg	aaaattgcgg	agtgtacatt	tacaaagatg	cgttcaaata	gtgctctaag	540
agttttgttc	agtggctcac	ttcggctaaa	atgcagaaat	gcatgctgtc	agcgttggta	600
tttcacattc	aatggagctg	aatgttcagg	acctcttccc	attgaagcta	taattttatt	660
ggaccaagga	agccctgaaa	tgaattcaac	aattaataat	catcgcaact	cttctgtgga	720
aggactttgt	gaagggaattg	gtgctggatt	agtggatggt	gctatctggg	ttggcacttg	780
ttcagattac	ccaaaaggag	atgcttctac	tggatggaat	tcagtctctc	gcatcattat	840
tgaagaacta	ccaaaataaa	tgctttaatt	ttcatttgct	acctcttttt	ttattatgcc	900
ttggaatggt	tcacttaaat	gacattttta	ataagtttat	gtatacatct	gaatgaaaag	960
caaagctaaa	tatgtttaca	gaccaaagtg	tgatttcaca	tgttttttaa	tctagcatta	1020
ttcattttgc	ttcaatcaaa	agtgggttca	atattttttt	tagttgggta	gaatactttc	1080
ttcatagtca	cattctctca	acctataatt	tgggaatatt	gttgctggct	tttgtttttt	1140

ctcttagtat	agcatttttta	aaaaaatata	aaagctacca	atctttgtac	aatttgtaaa	1200
tgттаагаат	tttttttata	tctgttaaаt	aaaaattatt	tccmacaacc	ttaaaaaaa	1260
aaaaaaaaa	aaaaaaaaa	aaaaanaa				1288

<210> 126
 <211> 1517
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (159)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1123)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1510)
 <223> n equals a,t,g, or c

<400> 126	
agtggccttaa	aggcatcgtt ttaggggatta ctgggaagta tcttcaaagt aatacatgag 60
aaacattcct	tcctaaatcc tttattatat tgaatatcgt attaatgggt tttcagagggt 120
taaattaacc	atgtattcct gcaataaatg tcacttgtn tttgtatata atctttttta 180
tatattaccg	gattgattca ttagtatattt gttgaggatt tttgtgtcta tattcataag 240
agatgctggg	ctgcagtttt ctttttttgt gataatctgg tttttgtatc agtaatacag 300
gccccatgaa	acgagttggg aagtgttcac ctctcttgta ttttttcaag agtttgtgaa 360
gaattgctat	taattccttta aatgttttgt agaattctacc attgaaatca tgtgtcctgg 420
gctttttttt	gaggggaagtg ttctgataac taattcagta tctacttttt atagctctgt 480
tcagattttg	cttcttcctg agttagtttt ggtaatttgt gtatctctag gartttgtcc 540
atttcattta	tctcatttgt tggcataaat taaactaaat ttggcctgag cctacctgta 600
tatcttgagt	ccctctgtaa ggaactgtag cctaacttgt acataaaca actgaaatcc 660
taaattagga	atgtagtttt tgtaacagct cctgagtcctc aggcagtcac agcagycaag 720
tctgtcaatt	gcaggctgct aactaagcag cccatgstca aatgaggcaa aaacctttgc 780
ttttaacaca	tagtatagct ttgtaatcct tttcttgac actcgggtaa tttcttcctt 840
tttcattccc	kgwattttcc akgaatatga rctyccttt tttcccctcc tgtcagtccta 900
gctaattggt	tgtcaatttt gttgatcttt tgaaraacaa acctttgggt ccactttcctt 960
gttgcatatg	ctgartattc tcataattgg agtggaaagc tgatctttga ttacttattt 1020
tacttagggc	tgaggagttc atggacttcg caaaacctcc ttgaatctaa attgcatctt 1080
ctttcctggg	ttctgggctg aaacatgttt tttcccatct wanawaccct tgggtctttc 1140
atkggcgatt	aagactagag aaagtcttag atmcttgct cttttatgct gtcattttgt 1200
ttaaaggctt	tctatgtagt aaaactatct atatagacaa aatagagcct tgagttgtgg 1260
tcttgaattt	gatcaacatg atttaccaca ttctgtactg gatatttctt cacctgctgc 1320
tactgtaaac	catttttattc ttggatcttc tgtagagtat attatcacag gtacttttta 1380
caggggtgtc	taatcttttg gcttccctgg gcacattgaa agaagaagaa ttgtcttggg 1440
ccacacatca	aatacgctaa cactaataat agttgatgag ctaaaaaaaa aaaaaaaaag 1500
gcaaaaaagn	cccaaaa 1517

<210> 127
 <211> 1073
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (495)
 <223> n equals a,t,g, or c

<400> 127
 tgaatctatt ctttgaacat tctacaacaa gaattacatt atactgttat accagagtag 60
 ttctgcagtg tgaaatagat tgggtttggaa aatgaacctg gctttgctat aaattacatt 120
 cacaggcctt tttgcaaagt tgtaacttgc ctatcaaagt agttttagg gcaaattgcag 180
 aatatatgtc tccatctggg aaagtacctt wtaytcatgt gggaaatcaa gtagtatcag 240
 aacttgggtcc aatagtccaa tttgttaaag ccaagggcca ttctcttagt gatgggctgg 300
 aggaagtcca aaaagcagaa atgaaagctt acatggaatt agtcaacaat atgctgttga 360
 ctgcagagct gtatcttcag tgggtgtgat aagctacagt agggrrmgatc actcatgmta 420
 ggtatggwtc tctttaccct tggcctctgw wtcataatctt ggcctatcaa aaacagtggg 480
 aagtcaaacg taagntgaaa gctattggat ggggaaagaa gactctggac caggtcttag 540
 aggatgtaga ccagtgtgt caagctctct ctcaaagact gggaacacaa ccgtatttct 600
 tcaataagca gcctactgaa cttgacgcac tgggtatttgg ccatctatac accattctta 660
 ccacacaatt gacaaatgat gaactttctg agaaggtgaa aaactatagc aacctccttg 720
 ctttctgtag gagaattgaa cagcactatt ttgaagatcg tggtaaaggc aggctgtcat 780
 agagtattgt gttagtctca ggagtcttaa cttttgaaat atgttttact tgaatgttac 840
 attagatatt ggtgtcagaa ttttaaacc aaattactgc tttttgaaac ctcaaattat 900
 ataatgtatc ttatgtatgt gctttatatt gttatttgtg tatacattaa aataattctg 960
 aattatttaa tctgatatgt tgtattctgt atcttgaaat ttttgtttcc ttgaaacatg 1020
 catgcattta aaaataaagc ttaacaact gtaaaaaaaa aaaaaaaaaa ctc 1073

<210> 128
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (273)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (294)
 <223> n equals a,t,g, or c

<400> 128
 caaccctgc cttttttttg ttttccattt gcttggtaga tcttctctca tccctttatt 60
 ttgagcctat gtgtgtctct gcccgtaga tgagtctcct gaatacagca cacttactgg 120
 tcttgactct gtatccaatt tgccagtctg tgtctttcat ttggagcatt tagccattt 180
 acatttaagg tkaatattgt tatgtgtgaa tttratcytr tcattatgwt gtttagctgg 240
 tattttgctt gtttagttgat gcagtttctt ccnggcacatc atggtcttta caanttggca 300

<210> 129
 <211> 1275
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1152)

10004950.120701

<223> n equals a,t,g, or c

<400> 129

ggcagagcct	gtccctgctg	cccctgcaaa	aaaaaccccc	tctgggtgtga	gcaggatggt	60
tggaggttat	gtgagctcct	tctcctttcc	tccagtttcc	tcttcccttc	tcctccctgc	120
ctcttttgct	tttccctttc	ttcctggtac	cccctgcca	ttcctgtatt	ttctcccatc	180
gccatttctc	cctctcccac	tgtccctaac	ccgttcaaac	tctttcctct	taaatggttg	240
agattttctc	tcaccaagca	cacccagta	ttaattaaac	tagctgcaaa	caggcagcaa	300
gtgggtctacc	atgacagatg	ggttttgtgt	gtgtgtgtgt	gtgtgtaatt	gtaataaaac	360
atattgartc	actcaataaa	cacagagtgt	ctactacatg	tatcargcac	tatcatagat	420
gctaattaac	gaaactgaaa	tggccaggcc	ctcacagtgg	ctcatgccta	taatcccagc	480
actttgggag	gatgaggcag	gaggatcact	tgaggccggg	agttcaagac	cagcctgggc	540
aacatagtaa	gactccatct	ctacaaaaaa	aaaatttttt	ttattatact	ttaagttttg	600
ggttacatgt	gcagaacgtg	tagttttgtt	acataggtat	atacgtgccc	tggtagtttg	660
ctgcacccat	caacccatca	cctacattag	gtattttctc	taatgttacc	cctctcctag	720
ccccccaccc	cgtgacaggc	cctgggtgtg	gatgttcccc	tccctgtgtc	catgtgttct	780
cattgggtcaa	ctctcaccta	tggagtgaga	acatgtggta	tttggttttc	tgatcttgtg	840
atagcttgct	gagaatgtkg	gtttccagct	ttatccacgt	ccctgcaaag	ggcataaaact	900
catccctttt	tatggctgca	tagtgttcca	tggtgtatac	gtgccacatt	ttcttaactc	960
atcattgatg	gacaagtttt	gctattgtga	atagtgccac	aataaacata	cgtgtgcgtg	1020
tgtctttata	gcagcatgat	ttataatcct	ttgggtatat	accagtaaat	gggatcactg	1080
agtcaaattg	tattttctcgt	tctagatccg	taagggaattg	ccacactgtc	ttccacaatg	1140
tttgaactaa	tntacactcc	caccaacagt	gtaaaagtgt	ttctattttt	ccacaacctc	1200
tccaacatct	gttatttctc	gactttttta	tgaacgtcat	tctaactggc	gtgagatggt	1260
atctcattgt	ggttt					1275

<210> 130

<211> 472

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (472)

<223> n equals a,t,g, or c

<400> 130

cngaaacccc	gtgaaccctc	cccggttaa	aaagccccc	ctaaatgggg	ggaacgcytc	60
acacgttata	aaaaagcact	agaatgtttt	gaaagcgaga	aacaacagct	gtgtagggta	120
gctagcagtt	agtgttgtac	agaagacaga	tatttgtgca	tttytgcat	ttctaagttt	180
gctgcaatga	gcatgtatta	ctttcatagt	tataaaacac	atgcaaaatg	cccttttaaa	240
atgaaaaaaa	atccatgagt	gtaagtata	tatatgtttt	ggaaagcctg	ggacggtcat	300
tgtttactct	caatagtatg	tgtttgcctt	tgtctttttg	agacattttg	ttttaatctg	360
ttgatgacaa	taacctgttg	ataatataac	ttgataacaa	ataaaatgac	ttatgattga	420
awmaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	nn	472

10004860-120701

<210> 131
 <211> 1950
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (132)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (225)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (249)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (577)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1933)
 <223> n equals a,t,g, or c

<400> 131
 acctctcaga atcttctctc agcaacctga gtcttcgccc ttcttcagag cgcttcagtg 60
 acacccctgg atccttccag tcaccttccc tggaaattct gctgtccagc tgctccctgt 120
 gccgtgacct tnatctgctg gtgtatgatg aggaaatcat ggctggctgg gcacctgatg 180
 actctaacct caacacaacc tgcccttctc gcgcctgccc ctttntgccc ctgctcagtg 240
 tccagacctn tgattcccgg cccagtgtcc ccagcccaa atctgctggt gccagtggca 300
 gcaaagatgc tctgtccctt ggtggctcctg gccctgtgct cagtgaccga agctctgcct 360
 tgctctggat gagccccagc tctgcaacgg gcacatgggg ggagcctccc ggcggttga 420
 gagtggggca tgggcatacc tgagccccct ggtgctgctt aaggagctgg agtcgctggt 480
 agagaacgag ggcagtgagg tgctggcggt gcctgaactg cctctgccc accccatcat 540
 cttctggaac cttttgtggt atttccaacg gctacgctg cccagtattc taccaggcct 600
 ggtgctggcc tctgtgatg ggccttgcma ctcccaggcc ccatctcctt ggctaaccoc 660
 tgatccagcc tctgttcagg tacggctgct gtgggatgta ctgaccctg accccaatag 720
 ctgcccacct ctctatgtgc tctggagggt ccacagccag atccccagc ggggtggtatg 780
 gccaggccct gtacctgcat cccttagttt ggcaactgtg gactcagtg tgcccatgt 840
 tggactcaat gaagtgcaca aggctgtggg gctcctgctg gaaactctag ggccccacc 900
 cactggcctg cactgtcaga ggggaatcta ccgtgagata ttattcctga caatggctgc 960
 tctgggcaag gaccacgtgg acatagtggc ctccgataag aagtacaagt ctgcctttaa 1020
 caagctggcc agcagcatgg gcaaggagga gctgaggcac cggcgggcgc agatgccac 1080
 tcccaaggcc attgactgcc gaaaatgttt tggagcacct ccagaatgct agagacctta 1140
 agcttccctc tccagcctag ggtggggaag tgaggaagaa gggattctag agttaaactg 1200
 cttccctggt gccttcagtg agttgggaac aggtcgggaa ggatgccag tcaaggctc 1260
 caagcgagga caacaggaag agggatccac tgttaccaaa agtcctgatt ccccatcac 1320
 caacctaccc agtttgttcg tgctgatgtt gggggagatc tggggggagt tggtagagct 1380
 ctgttcttcc cttgtcctat accgggaact cccctccagg gtaccacag atctgcattg 1440
 ccctggtcat tttagaagtt tttgttttaa aaaacaactg gaaagatgca gagctactga 1500
 gcctttgccc tgaatgggag gtagggatgt cattctccac caataatggt cctcttccc 1560
 tgacgttgct gaaggagccc aaggctctcc atgcctttct acctaagtgt ttgtatttta 1620

10004960-12001

ttttaaatta	tttattctgg	agccacagcc	cccttgctta	tgaggctctt	atggagagtg	1680
agaaaggga	gggaaatagg	gcaccatggg	ccggtgggtt	gtagttcctt	caaagtcagg	1740
cactgggagc	tagaggagtc	tcaagctccc	cttaggaaga	actggtgccc	cctccagtc	1800
taatttttct	tgccctgcccc	gccttgggga	atgcctcacc	caccaggtc	ctgacctg	1860
caataaggat	tgttccctgc	gaagttttgt	tggtatgtaa	tatagtaaaa	gctgcttcg	1920
tctttttcaa	aaaaaact					1950

<210> 132
 <211> 990
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (657)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (852)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (859)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (962)
 <223> n equals a,t,g, or c

<400> 132						
tggaagattt	aaaatagggt	tcataatttct	cttgaatatg	aatatataag	cttgaataag	60
cttgagtcct	tattattatg	aaatttttct	tattatttct	accaatgctt	cttatattaa	120
agcctgatct	ttttcatatt	agtatatgta	cattagctgc	ctgtggatta	acatttccat	180
gaaatgtatt	tttgcattgt	ttgatcttaa	actttttgtg	tctttatata	aggtatgcty	240
cttttaagca	tgatattttt	aaccacaata	gttgaaagac	aatctycacc	ttttacttgt	300
atattttacat	gtaatgtaat	ttttgatgca	tattacgtct	tattatttaa	ccaacctatt	360
ttattttatc	tagggcattt	ttcagaaagc	cttattttct	tgtattaatc	aaatatattt	420
aycattgtat	tttccycat	tagttagkaa	tacgktacyc	yaaatatata	ttgtggstat	480
tttcagaatt	gcaatatgcc	tccttaattt	attagaggct	aacctaaatt	attactttta	540
ccacttactt	gaaaattctg	gaacttttag	acatttattg	ttttatgcat	tttaattcta	600
cttgatattt	tactactcct	aaacattatt	attgttttag	acaagccaaa	atatatnttg	660
ttattatctt	atyctccatt	tctttctgta	tttttatgcc	actatgtatg	ctcaatttcc	720
ttctatgtga	tgaacctaat	tcagtacttt	tgttttttta	tctgtgcagg	tagcctggcc	780
attaaatttt	tatttttggt	ttgctgaaaa	aattgtgttt	atttctatat	gcatacttat	840
gcatatagaa	tnctaggtng	acatattttt	agtatttata	aatgtaaaag	cattwattkg	900
gcttctatca	tttckgtkga	gaaatcaatt	gtcagcccaa	tagtttttca	ttttaaatta	960
cngaattttt	tcattgtctt	ggtttttagga				990

<210> 133
 <211> 1720
 <212> DNA
 <213> Homo sapiens

10004560-120701

<400> 133

gtctgataag	cgactgtggg	tattccccta	aagtttactt	cagcactaac	actagtgtct	60
ccgctggagt	ttgcagtttt	ccagctttat	acaggatctt	ccttttgactg	gaagagtc	120
ggatatagag	actcaacagt	gacattttat	gtacaacatc	aaggggaata	ggatacttat	180
caaactggga	ttattcttat	caaaacatgg	tcttctttga	ataagaaaaa	tacatagctg	240
gttattatgg	acttaaaact	gtgttaaatg	gataattctga	taaaatattt	gctgtctctg	300
agagtgtgga	aaatctgaga	atattagctt	tactcatctt	gagctttgag	gatgttctct	360
gtacgccgat	ggtttcatat	taactaaaaa	agctgggtat	tgtaaaatct	cattttaaaa	420
aactcagatg	agaagaaaat	tttctttgat	gggtgagactg	ttgtcttagt	tcaggaaatt	480
atttaataat	cctttgttac	ctgtgaatga	aggaactttg	taattctgat	ttatctaaaa	540
acatgagcct	ttccagagtc	agcttagaca	ctgttgctgc	aaatagccat	gcttttctct	600
atgccaaagga	ggcccagagg	gagggcctag	tcttctctctg	ttgctgtaca	tatatgaaa	660
tgcttttttt	ttttattttg	catttggtat	ctataatgag	cctttctgagc	cctgatatta	720
tgtgagacaa	acaggagtta	ttgatgttat	acactccctt	ccattcagga	tttctgctt	780
ggagggaaat	atgttgacct	tagagaattg	tgaatattgt	tgcaattctt	gaatatatta	840
ccatgtgaat	aatagagact	gtgttgctct	ctagtataag	ctatatattat	ttttgattca	900
tttgaattac	tagttataac	tggagaaatt	ttgttacctc	tatctggct	tgcttgactg	960
gctgtataat	agcagcagcc	tcttttagag	catcttaatg	aaaacatgga	tgaaagggaat	1020
taatgatgat	atctgcagac	tgcgtagaaa	atggcttttg	ttcccagcgt	taacattttc	1080
ttctcaatca	catttcaatg	tttgtggaga	gtggcagatt	cacaccagaa	acactaggtg	1140
ttcatatcca	tagcatggat	gcagaataag	cagttgggag	agaagcttct	tcctacctgg	1200
tactcctccc	attcacctca	gccagcccc	agacaggcgt	tagcattcag	tgtgggacct	1260
caggcagccc	tgaagcctgg	ctgggtcatc	agatgggggc	agcctgtgac	gggcaccagc	1320
ggcctgattc	cagggaagag	ttcctggagg	gtgttggtctg	tttttggttag	ctcagttttt	1380
ttctgggctc	caccattcct	aactccaggt	agacaagata	gatgtcacac	acaacaattt	1440
taaagtattt	tgcttagtgc	attttgttta	tgattgcagt	gtttgtttct	tattttaatag	1500
gctttttact	tcattctatt	aaattttagt	gtttagaaga	ggcgggtact	gtcactgtgt	1560
aaaatatgta	atattttata	tgttatacca	tgatcatatat	acttgcaata	tcagaccttg	1620
cattcaatat	acaatgcaat	tgactctttg	cagacctgca	tttttcagtg	aacaataaaa	1680
agattgtctg	gcactccaaa	aaaaaaaaaa	aaaaaaaaaa			1720

<210> 134

<211> 705

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (409)

<223> n equals a,t,g, or c

<400> 134

ggcacgaggc	catctgggct	cattcagcag	gaaataatgg	aaaaagctgc	aatatccagg	60
tgtttactac	aatctggagg	caagatcttt	cctcagtatg	tgctgatgtt	tgggttgctt	120
gtggaatcac	agacactcct	agaggagaat	gctgttcaag	gaacagaacg	tactcttgga	180
ttaaatatag	caccttttat	taaccagttt	caggtacctt	tacgtgtatt	tttggacctt	240
toctcattgc	cctgtatacc	tttaagcaag	ccagtggaac	tcttaagact	agattttaatg	300
actccgtatt	tgaacacctc	taacagagaa	gtaaaggat	acgttttgtna	aatctgggaa	360
gacttgactg	ctattccatt	ttgggtatca	tatgtacctt	gatgaagang	attaggttgg	420
gatacttcaa	gtgaagcctc	ccactggaaa	caagctgcag	ttgttttaga	taatcccatc	480
caggttgaaa	tgggagagga	acttgctactc	agcattcagc	atcacaaaag	caatgtcagc	540
atcacagtaa	agcaatgaag	agcagttttc	caatgaaaac	tgtgtaaata	gagcatcaac	600

aagtacaaaa ttcttgtctt aattagtggg ggtatataaa aattccttgt aatgggtcaca 660
tatttttttaa aattgacatt aataaagcat attttaaaag tttct 705

<210> 135
<211> 323
<212> DNA
<213> Homo sapiens

<400> 135
agcacacacc tccttttagtt gctcctaagg tcatgttcaa cattcgtgga gtgcaatttc 60
tgctcaggga gctttcccag acccggaatg tttggtgctc acagacyctg gcaaggatcg 120
gtattgctgt tcctcagttt tgcttgggga aatggaggst cagtgcagtt cagtgcagtg 180
cccagagtca tgccattggc ggggtggcca gkgmtccagg tctccagcac cctcggccc 240
cctcctcacc aggtcacatc atctcctgga ttagaatctg ctcatatagt ctgtcctgaa 300
aggaaaaaaa aaaaaaaaaa aac 323

<210> 136
<211> 582
<212> DNA
<213> Homo sapiens

<400> 136
ggacggaatg gtgcaaccct cctwamtttt ctkgkgctgt tgacaacaga gggagggagg 60
gaaaacatatt ttygtgggag aatcctacyt ctgcagsgga gcccttaagc gatkgatttt 120
gaatctkgac cctttaccaa ctaattttga aggaagatac cttggaaata tttggcattc 180
agtgggttac tgaaacagca ttagtgaatt catctagaga actctttcat ttattcaggc 240
aacaactgta caacttgga accttggttac agtccagttg tgattttggg aargtatcaa 300
ctctacactg caaagcagac aatattaggc agcagtgtgt actatttctc cattatgtta 360
aagttttcat cttcaggtat ctgaaagtac agaattgctga gagtcatgtt cctgtccatc 420
cttatgaggc tttggaggct cagcttccct cagtgttgat tgatgagctt catggattac 480
tcttgtatat tggacaccta tctgaacttc ccagtgttaa tataggagca tttgtaaatc 540
aaaaccagat taaggtttga ctggtttcat ttgattttta ag 582

<210> 137
<211> 1021
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1004)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1014)
<223> n equals a,t,g, or c

<400> 137
ttcggcagag cccttgcgcg ctcttgaata cctgckttct gtacgcctag ttctcttcaa 60

30004860.120701

```

gatttgctta gtgtcatttc atttcggttt cttttctcgc catgtttttc tgtcggaatc 120
acggtttcgtt ttggttctat gtactctcta aaatgttata gtttttcatt tgtctactaa 180
ttttcgtgca ttgtttacta ctgagtttct taatatctga ctggcctccg cccacgggct 240
ctgcaganca taaaatactc aggctgatgg tagtgcagag actctccctc cttgatcagc 300
gcaaacgttg gtctgaggct tgagggatgg agcaacattt tcttggtgt gtgaagcggg 360
cttgggattc cgcagaggct gcgccagagc cccagcctcc acctattgtg agttcagaag 420
atcgtggggc gtggcctctt cctttgtatc cagtactagg agagtactca ctggacagct 480
gtgatttggg actgctttcc agcccttgct ggcggtgctc cggagtctac tggcaaaacg 540
gactctctcc tggagtccag agcaccttgg aaccaagtac agcgaagccc actgagttca 600
gttggccggg gacacagaag cagcaagarg cacccgtaga akargtgggg caggcagarg 660
aaccgcagag actcaggctc crgcagcttc cctggagcag tcctctccat ccytgggaca 720
gacagcagga caccgaggtc tgtgacagcg ggtgcctttt ggaacgccgc catcctcctg 780
ccctccagcc gtggcgccac ctcccgggtt tctcagactg cctggagtgg attcttcgcg 840
ttggttttgc cgcgttctct gtactctggg cgtgctgttc acggatctgt ggagctaagc 900
agccttagat agcagcagaa ggctttttgg attctcctcc ttgaaaagat tctcagttac 960
caaacgtctc cacctagaaa ataaaaatac attaagatgt tganaaaaaa aaanaaaaaa 1020
a 1021

```

```

<210> 138
<211> 1777
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (58)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (118)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (237)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (661)
<223> n equals a,t,g, or c

```

```

<400> 138
gattgtttac gatcatatcc ggcgatttgg gtaccggggc cccccccgac tttttaantt 60
tttttttttgc gagacagggg ctcaactttgt ggctcaggct ggagtgtact ggcacgttct 120
tagctcactg cagccttgaa ctctggggct caggcaatcc tcctacctta gcctcctgag 180
tagctaggac tacaggaatg tgccatcatg cctggctaatt ttttaagttt tttgtanaga 240
tgggatctca ctatgttgcc caagctgggt tcagattcct gtgctcaagg gattctgcta 300
acttggctcc ccaaagtgtc gggattacaa atgtgagcca ctgtatctgg cccatattct 360
tttttaagaa aaagatgcag aggtgttaaa tattaatct aaattgtcca ggcattggtg 420
ttatgaaatt gtgtgcctc tgacaggcaa ccaaacacac acgacttcat ttctttatta 480
attcctgcct catcatcttt tctcattgat gtcctttaat gtcaaaggaa tctctctctc 540
tcacacacac ataagaccaa aacaaatctc ttgaacatgc aaaaaaatag tctacgcttt 600
tgaatagtgt gcaactgtga atagtgtgca ctgttgata gtgtgcaact ttgaagtgtg 660
natgtgccta aggcaacagg atcttgggaa agctctagat ttttggcytc gaaataaaac 720
tgcattgtga atagcagggt tttacattta ttattgtgt gtatttctct ccttttttgc 780

```

10004860-120701

aatactatct	acgctgagtt	atctattgcc	aactagcacc	aattctccaa	atcaaagtgt	840
gtgaggaaaa	cacactcgtg	caatcctctt	taacagaaga	tacaccaagt	aacctgtctg	900
tctactttctg	ttaccacagaa	ataaaagaac	ttgaagggtc	gcttggctgg	aggggtccgg	960
gtgggagagc	atcctgccct	cagtcggaat	ccatggtgaa	cagctggatg	tctgtggat	1020
tccagtagacg	gccgactgct	gagttgtaga	caagagacca	gacatagggg	ataaaaaact	1080
cctcgggctg	ctcctcttcc	acataatttg	atttcaattc	tggaaatttc	ttcagtctgt	1140
ctttggggcag	cgcaacgacg	ccttgcttaa	tgatttccag	gacccgttcc	actgacagct	1200
cagctcccag	cttgagcaa	ccttgagcta	aagaaggaga	tcaccagatc	aatattttgc	1260
attatatcct	gaaatgaagg	atgagttcga	aattgttcaa	agagatcgcg	tttgtaaagc	1320
agggcgtata	ccaagtttgg	gttgtggtga	agggaaattg	tcaggcagga	gttgatgac	1380
tctaacaatca	ttcgaatcac	ttcttcaatg	acatttaggt	cttgtgcata	atctggtaga	1440
ggaacatcat	tagaactcag	cgaacctctc	aaggactgtg	tggcttggtc	cagaactttg	1500
ttgtgttttt	tagacagcaa	agaaaataaa	ctgatgatcc	tctgggcagc	atactgatgg	1560
agagaacgaa	actgtgccga	cataatttgct	aaagctgcc	aacaatttgt	gtgaaggtag	1620
ttgtctcgtg	tcctagtcac	gttgtattga	atggttctta	ttaccaccag	gatcaggaga	1680
ctccccagg	agatttcagt	taaaactcgt	tctgaatacc	aagtaatat	ttttagtagt	1740
acttcatgaa	tggatctgtt	gaagccatca	tcttccg			1777

<210> 139

<211> 643

<212> DNA

<213> Homo sapiens

<400> 139

tttttttttt	tttttttttt	tttttttttt	ttttttttggg	aatgagaaaa	taactttatt	60
ttcattgtgg	ggagcggggc	gatgtccagc	ctcagaactt	ctggaactgc	ttcttggtgc	120
cggcagcctt	ggtgaccttg	agcacgttga	agcgactgt	cttgctcaga	ggccggcact	180
cgccactgt	gacgatgtca	ccgatctgga	cgtccctgaa	gcagggggac	aggtgtacag	240
acatgtttct	gtggcgcttc	tcgaagcggg	tgtacttgcg	gatgtagtgc	agatagtctc	300
ggcggatgac	aatgggtcctc	tgcatcttca	tcttggttca	ccacgccaga	gaggatccgc	360
cctcgaatgg	acacattacc	agtgaagggg	catttcttgt	caatgtaggt	gccctcaat	420
agcctccttg	gggtgtcttt	gaagcccaga	ccgatgttct	tgttagtaac	ccgcgggagc	480
ttctccttgc	cagtttctcc	cagcaggacc	ctcttcttgt	tttgaaagat	ggcgggtgc	540
ttttggtagg	cacgctcagt	ctgaatgtcc	gccatcttct	cgtgccgmay	tcctgcagcc	600
cgggggatcc	actagttcta	gagcggccgc	accgcggtgg	agc		643

<210> 140

<211> 1220

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (404)

<223> n equals a,t,g, or c

<400> 140

tttttttttt	ttgagatgga	atcttgctct	tgttgtccag	gctggagtgc	aatggcacga	60
tcctggctca	ctgcaacctc	tgccctctag	cttcaaggga	ttctcctgcc	tcagcctccc	120
gagtagctgg	gattacacgt	gcccaccacc	acgcccgaact	aatattkgta	tttttagtag	180
agacggggct	tcaccagggt	ggccaggcta	gtcttggaac	tcctgacytc	gtgatccacc	240
tgcytcggcy	tcccaaagtg	ctgggattac	aggtgtgagc	cgtcttgtgt	tttttgtttt	300
tgtttgtttt	taaaagatgg	artttcactc	ttattgccc	ggctggaktg	caatggcacr	360
atctcggtc	accgcaatct	ccacctctg	ggctcaagca	attnttctgc	cccagcctcc	420
caaagtgtg	gaattacagg	tgcccgcac	catgcccac	caattttcsg	taytcytagt	480
agaggtgggg	tttcacaacg	tkggccaggc	tggytcaaaa	ctcaaaytcc	tgacytcagg	540

tgatctgccc	actttggcyt	cccgaaatgc	tgagactaga	ggcgcgagcc	accacgcctg	600
gcctacaaac	acattcttgt	ttgggttttt	atataaaaata	tgagcacaaa	aatactttcc	660
ctaaatacag	cctctggctt	tgccataccc	ttggcacaca	sccaagtacc	tcttccattc	720
tcagatacgt	gaggggagtg	tatagagggt	tagagtacat	acgtttcttc	tccaactctt	780
cgtcgtctag	aagaagacta	accacctctt	tgggtttcaa	ggtatctggg	ttgaagtccc	840
cacctgaaat	caccatccgc	tgaatctcac	tcttctcctt	ggctctttgc	agaatgcgtt	900
cttcaatggg	gcctttacag	atgagccggg	acacagtaac	ctgctttgtc	tgccctaagc	960
gggtgggccct	gtccatggcc	tgctgggtcca	cagtgggggt	ccagtcgcta	tcatagaaaa	1020
tgactctgtg	ctkcagcagt	gagattgata	cccagtcctc	cagctcgtgt	gcttaacagg	1080
aacacaaaga	tgtcattcct	gttctgaaaa	tcagcaacca	tgtctcgctt	ctccgagatc	1140
ttggatgagc	catcaagcct	yatgtaggta	tgcttcctgt	aaacatgta	ttcctccagt	1200
aggtctatca	tcctcgtgcc					1220

<210> 141

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (623)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (626)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (638)

<223> n equals a,t,g, or c

<400> 141

aattcggcac	gagccagggt	agccggaagg	gcagctctcc	aggccctgcc	cacccacacag	60
ggggctcctt	atgcacagcg	gggcgtctcc	ttgtggccat	agaaacggaa	ctggctcttt	120
tcaacagtgc	tgcaagagga	tggttattta	acgctggccc	ccaaggagga	aaggcacaga	180
cyttcctccc	tcctggaaca	tccaagggca	ctggatcctc	tgtgtccctc	tgagatgggg	240
tgccactcca	gcaagagcac	cacggtggca	gctgagtcct	agaagcttga	agaagagygc	300
gaggggaagag	agccagggtc	ggagaccggc	acccaggcag	cagactgcaa	ggatgccccg	360
ctgaaggatg	gaacccctga	gccaaagagc	tgaaatgcct	ctctccagag	tcggaccctc	420
acctcyttcc	tggaactgcc	tttggcccca	gaaccatgag	acaatcccca	ccctgagaag	480
ctccgatcac	tgggaggaga	gagaaagcct	ccagctttgg	gattcaggct	tcagaagttt	540
ttagcagcct	ttgctcattg	gagaggtggg	gaaaggataa	agttcttata	aggaaatccc	600
taattttccc	cagctcctcc	ccnccngaag	aaggaaacnaa	agaaagtccc	ttccacacgt	660
tttgttgtaa	acttttccct	tgccaacttt	cottggattg	ccagaacaaa	gccctccaga	720
a						721

<210> 142

<211> 1468

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (901)

<223> n equals a,t,g, or c

<400> 142

atgaattaat	gtttataaat	gactgtactg	aattttaaac	cgtacagttt	catttgcatt	60
ttgacattac	tttattatac	attttgcatt	taaaaggctg	caccagttgg	cttttcttct	120
gttttattct	caaaatatag	agattctgtg	atttatattg	cctgtttatg	gattaaaaag	180
aaaattctaa	tataaagcat	ttcaatagga	tgcataggta	tattacgttt	tttaaatgct	240
ttagatctgt	gattcttgac	ttactattta	ttttatcccc	tttaagtcag	ggatgcttta	300
ttctatttta	aagcacttat	gagttacatg	ttgtaatcaa	gtttgcacaa	tatatatttc	360
tatatgagga	acccataaat	gaatagctaa	ttttttaa	gccattaaaa	tgcatgaaat	420
kcttattaaa	acettactat	actatttctt	caaggcaagt	aaattgacca	tgrgraaagr	480
acacagttat	taaacactgt	tgacaggaaa	attctccttg	ataacatagg	acaattaatg	540
gaaaaaaaa	ttctcattat	ttgcaaagaa	tgaacaagtt	aatgaacaaa	caaactagat	600
ttggtaggtt	ttcagctttt	gtatcatggt	taattgttta	atttggttga	aaaactgcag	660
ttgagaaatc	agatagcaat	atagacattc	acagcagctc	tgtggatacc	atgtaattgt	720
caggtaat	cagaatgttg	aaaattattc	agtgcagccc	tcatagtatc	atacttgaag	780
aaattgatta	cagttccact	aaattgttga	agataaatta	tttttaaagg	ttatgaaaac	840
taagtatat	taattcatat	gtttgatttt	taaatccac	ctcctcaagc	tatccaat	900
nctgactttg	aaaataacca	tgagagatgc	cacatttctc	tctgggaaac	taccactcaa	960
agaataattg	ttaaaaatta	agcttttagg	tattagaagc	tgttataaa	tataaaatta	1020
agatataagc	agatcacatg	taaatcattc	ctaaagcaca	agaaaagaat	gtgccttgat	1080
gtacatatat	tactaagttg	cctctcccag	tttacttta	aatggcctt	aaggataaag	1140
aataaatgtg	atagctgtgc	atgcattata	tatttgcatt	tgcaaatttc	ccattgtttt	1200
aacagctgtg	tggctgactt	tcaatttta	gacgtgaatt	gacatacagc	ccataacttt	1260
ataatggctg	ctcatttatc	ttatctttca	gttagtgga	aaacatttca	acctgactaa	1320
aatttggaat	tgtgtctttt	atgttccatc	ctctgttggt	actagattta	gtttaaaaat	1380
tgtgtatgac	cattaatgta	tgtcataaac	atgtaaataa	aagatgttga	atcttgttga	1440
aaagcawraa	aaaaaaaaaa	aaactcga				1468

<210> 143

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (268)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (284)

<223> n equals a,t,g, or c

<400> 143

tgaatttttt	gccaaactta	gtaactctgt	taaatatttg	gaggatttaa	agaacatccc	60
agtttgaatt	catttcaaac	tttttaaatt	tttttgtact	atgtttgggt	ttattttcct	120
tctgttaatc	ttttgtattc	rcctatgctc	tcgtacattg	agtactttta	ttccaaaact	180
agtgggtttt	ctctactgga	aattttcaat	aaacctgtca	ttattgctta	ctttgattaa	240
aaaaaaaaaa	aaaaaaaaaa	aaaccccnag	gggggggccc	ggtncccaat	cccccccaa	300

<210> 144

<211> 2243

<212> DNA

<213> Homo sapiens

10004560-120701

<220>
 <221> SITE
 <222> (929)
 <223> n equals a,t,g, or c

<400> 144

tgcctccctt	cctgcagatt	gtggacagta	gttcctcage	ctgcaccctg	gattcccttct	60
tcccccttct	agctccatgg	gactcgcccc	aagactgtgg	cttcaaggac	caccagcccc	120
ttactcttca	agccccgact	gtggagttgg	tagatgcctc	tgatcctcag	tattctctct	180
ggcaatgttc	cacggcttct	ccttcctggg	agctggctcc	ataacttgat	tttccccaaa	240
cgtgttgcaa	tccctgctgc	cccttagcca	cccagggtct	tgtgtgggta	tgagtgtaga	300
ggatgggggt	atgccaggcc	tgggccgtcc	caggcaggcc	cgctggaccc	tgatgtact	360
cctatccact	gccatgtacg	gtgcccagtc	cccattgtctg	gcactgtgcc	atgtggacgg	420
ccgagtggcc	ttycggccct	cctcagccgt	gctgctgact	gagctgacca	agctactgtt	480
atgcgccttc	tcccttctgg	taggctggca	agcatggccc	caggggcccc	cacctggcg	540
ccaggctgct	cccttcgcac	tatcagccct	gctctatggc	gctaacaaca	acctggtgat	600
ctatcttcag	cgttacatgg	accccagcac	ctaccagggtg	ctgagtaatc	tcaagattgg	660
aagcacagct	gtgctctact	gcctctgcct	ccggcaccgc	ctctctgtgc	gtcaggggtt	720
agcgctgctg	ctgctgatgg	ctgcgggagc	ctgctatgca	gcagggggcc	ttcaagttcc	780
cggaacaccc	cttcccagtc	ccccccagc	agctgtctgc	agccccatgc	ccctgcatat	840
cactccgcta	ggcctgctgc	tccctattct	gtactgcctc	atctcaggct	tgctgtcagt	900
gtacacagag	ctgctcatga	agcgacagng	gctgcccctg	gcacttcaga	acctcttctt	960
ctacactttt	gggtgtgctt	tgaatctagg	tctgcatgct	ggcgccggct	ctggcccagg	1020
stcctggaa	ggtttctcag	gatgggcagc	actcgtgggtg	ctgagccagg	cactaaatgg	1080
actgctcatg	tctgctgtca	tgaagcatgg	cagcagcatc	acacgcctct	ttgtggtgtc	1140
ctgctcgctg	gtgggtcaacg	ccgtgctctc	agcagtcctg	ctacggctgc	agctcacagc	1200
cgccttcttc	ctggccacat	tgctcattgg	cctggccatg	cgcctgtact	atggcagccg	1260
ctagtccctg	acaacttcca	ccctgattcc	ggaccctgta	gattggggcg	caccaccaga	1320
tccccctccc	aggccttctt	ccctctccca	tcagcagccc	tgtaacaagt	gccttgtgag	1380
aaaagctgga	gaagtgaggg	cagccagggt	attctctgga	ggttgggtgga	tgaaggggta	1440
cccctaggag	atgtgaagtg	tgggtttggg	taaggaaatg	cttaccatcc	cccaccccca	1500
accaagtctt	tccagactaa	agaattaaag	taacatcaat	acctaggcct	gagaaataac	1560
cccatccttg	ttgggcagct	ccctgctttg	tcctgcatga	acagagttga	tgaaagtggg	1620
gtgtgggcaa	caagtggctt	tccttgccca	cttttagtcac	ccagcagagc	cactggagct	1680
ggctagtcca	gcccagccat	ggtgcatgac	tcttccataa	gggatcctca	cccttccact	1740
ttcatgcaag	aaggcccagt	tgccacagat	tatacaacca	ttacccaaac	cactctgaca	1800
gtctcctcca	gttccagcaa	tgccatagaga	catgctccct	gcccctctcca	cagtgtgct	1860
ccccacacct	agcctttgtt	ctggaaaacc	cagagagggc	tgggcttgac	tcctctcagg	1920
gaatgtagcc	cctgggcccct	ggcttaagcc	gacactcctg	acctctctgt	tcaccctgag	1980
ggctgtcttg	aagcccgtca	cccactctga	ggctcctagg	aggtaaccatg	cttcccactc	2040
tggggcctgc	ccctgcctag	cagtctccca	gctcccaaca	gcttggggaa	gctctgcaca	2100
gagtgcctg	agaccaggta	caggaaaacct	gtagctcaat	cagtgtctct	wtaactgcat	2160
aagcaataag	atcttaataa	agtcttctag	gctgtagggt	ggttcctaca	accacagcca	2220
aaaaaaaaaa	aaaaaaactc	gag				2243

<210> 145
 <211> 1082
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (265)
 <223> n equals a,t,g, or c

<220>
 <221> SITE

<222> (354)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1064)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1081)
 <223> n equals a,t,g, or c

<400> 145

gccaagctct	aatacgactc	actatagggg	aagctgggtac	gcctgcagkt	accgggttccg	60
ggaattcccg	ggtegaccca	cgcgctccgct	tccgtgtgtc	aaaatcctca	cctccttcat	120
aaccatctcc	cacaattaat	tcttgactat	ataaatttat	ggtttgataa	tattatcaat	180
ttgtaatcaa	ttgagatttc	tttagtgctt	gcttttctgt	gactcaactg	cccagacacc	240
tcattgtact	tgaaaactgg	aacancttgg	gaatgccatg	gggtttgata	atctgccagg	300
gacatgaaga	ggctcagctt	cctgggacca	tgactttggc	tcagctgac	ctgnacatgg	360
gagaacaacc	acatttttct	ttgtgtgtgc	ttctagcagc	tggtcgggag	gaccktgacc	420
caayagtgtt	cccagctgtg	ttcttgtgaa	atgctctcgg	ctatgtagca	gcttttgatt	480
ccctgcatac	cctaggctgc	tgcccctatc	ctgtcccttg	tttataacat	tgagagggtt	540
tctagggcac	atactgagtg	agagcagtgt	tgagaagtcg	gggaaaatgg	tgactacttt	600
tagagcaagg	ctgggcatca	gcacctgtcc	agctctactt	gtgtgatgtt	tcaggaactc	660
agcccctttt	tctgcctagg	ataaggagct	gaaagattaa	cttggatcty	ctaaggtcc	720
aaatcttttg	gtcacataaa	agagtctcca	aattagagac	tgcatgttag	ttctggatgg	780
atttgggtgg	ctgacatgat	accctgccag	ctgtgagggg	accccgtttt	taagatgcat	840
ggccaagctc	tctgcaaata	gaaatgctta	cactgggtgt	tggggatgtt	tgctacctcc	900
tgctattttt	gtgggttttg	ttctcccact	atggtaggac	ccctggccag	cattgtggct	960
tgtcatgtca	gccccattga	ctaccttctc	atgctctgag	gtactactgc	ctctgcagca	1020
caaatttcta	tttctgtcaa	taaaaggaga	tgaaaataaa	aaanaaaaaa	aaaaaactcg	1080
ng						1082

<210> 146
 <211> 4313
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1126)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (4015)
 <223> n equals a,t,g, or c

<400> 146

caagctgggt	tgaaactagg	ggtcggggctc	ggccgtcgctc	gttgtttggtc	ggcgcatccc	60
cgcttccggg	ttaggccgtt	cctgcccgc	ccctcctctc	ctcccttcgg	acccatagat	120
ctcaggctcg	gctccccgcc	cgccgcagcc	cactgttgac	ccggcccgtg	ctgcggcccc	180
gtggccacca	tgtccctgca	cgcaaacgg	aaggagatct	acaagtatga	agcgccctgg	240
acagtctacg	cgatgaactg	gagtgtgctg	cccataagc	gctttcgctt	ggcgctgggc	300
agcttcgtgg	aggagtacaa	caacaagggt	cagcttgttg	gttttagatga	ggagagttca	360
gagtttattt	gcagaaacac	ctttgaccac	ccatacccca	ccacaaagct	catgtggatc	420

10004360.120701

cctgacacaa	aaggcgtcta	tccagaccta	ctggcaacaa	gcggtgacta	tctccgtgtg	480
tggagggttg	gtgaaacaga	gaccaggctg	gagtgtttgc	taaacaataa	taagaactct	540
gattttctgtg	ctccccctgac	ctccctttgac	tggaaatgagg	tggatcctta	tcttttaggt	600
acctcaagca	ttgatacgac	atgcaccatc	tgggggctgg	agacagggca	gggtgttaggg	660
cgagtgaatc	tcgtgtctgg	ccacgtgaag	accagctga	tcgcccata	caaagaggtc	720
tatgatattg	catttagccg	ggccgggggt	ggcagggaca	tgtttgcctc	tgtgggtgct	780
gatggctcgg	tgcggtgtgt	tgacctccgc	catctagaac	acagcaccat	catttacgaa	840
gaccacagc	atcaccact	gcttcgcctc	tgctggaaca	agcaggaccc	taactacctg	900
gccaccatgg	ccatggatgg	aatggagggtg	gtgattctag	atgtccgggt	tcctgcacac	960
ctgtsgccag	gttaaacaac	catcgagcat	gtgtcaatgg	cattgcttgg	gccccacatt	1020
catcctgcca	catctgcact	gcagcggatg	accaccaggc	tctcatctgg	gacatccagc	1080
aatgccccg	agccattgag	gaccctatcc	tggcctacac	agctgnaagg	wgagatcaac	1140
aatgtgcagt	gggcatcaac	tcagcccga	ytgtcgccat	ctgctacaac	aactgcctgg	1200
agatactcag	agtgtagtgt	tgggtggcgt	gtgcccacga	ggcaggggct	tttgtatttc	1260
ctgcctctgc	cccccccca	aagtaagaag	aaacatgttt	ccagtggcca	gtatgtcttt	1320
cattgctttg	caccactgt	taccagaagc	tgctctagga	gttcctggcc	agtcacccca	1380
tcgcccctctg	tggcagactc	agtgtgtgtg	ggcgccctcct	cagcccaggg	ctgagtttta	1440
agattttctc	tcctttcctc	ttctcctttg	gttcctcaat	taaaaaatgt	gtgtatatatt	1500
gtttgtcagg	cgttgtgttg	aggagcagtt	cacgcactgg	ctgtgtctat	tcctctgccc	1560
agggtgtctct	gtttgtctgcc	caakgywkkt	tttcatgtct	cgcccatgtc	catgttcgtg	1620
ttagcactwa	cgtgggaaca	aataccaatt	tgtcttttct	cctagtatca	gtgtgtttaa	1680
caaattttta	ctttgtatat	ttgttatcta	tcaggctaatt	ttttttatga	aaagaatttt	1740
actctcctgc	ttcattttct	tgtcttatag	tcctccctct	ttgcaccttc	ttctcttccc	1800
tcagtgcctg	gagctggtac	tgggcccctg	gccccatgag	cagtttgcct	tcttgagtca	1860
ctgcctgtgt	agtacatacc	tgaccgggag	tccaaaccac	cttgggtgctc	tgaagtccac	1920
tgactcatca	cacctttctt	agcctggctc	ctctcaaggg	cattctgggc	ttgtaaacag	1980
acatagggaag	cctctgttta	ccctgaagca	ccactgtcca	gcccattggg	tcccactggc	2040
agcatggtag	agctgagaga	aacaggctct	cagggtacct	gacttgaggg	gaatcgtttc	2100
atgaagctga	acttcaagca	tatttccagt	acattctttc	agagtctgtt	tttccatcca	2160
aatataagcc	caggccatt	ccacttagtg	tcttttcaat	gataggcaag	aatgatattc	2220
gagttgaact	tcggtgcttc	tgttgtttga	gtttactgtg	cctgggtggta	tattgggcat	2280
tctttggatt	gagtgttctg	aggtagagaga	gtcttcccga	ggcatcctgt	ctgtgcttcc	2340
aaccctgaac	aagaccttac	atgagagatg	gactgatgga	ctgcggcaat	cctgggctgt	2400
caagtggata	gatagttaaa	aagcattata	ctgtgggtaa	tgaaaaggga	ggaaaaaaa	2460
agaaggaaaa	ggaattatag	acccccaggg	tcagccagtt	aagagctcta	cccacacctg	2520
tcaaccctc	tctccccag	tttaggttct	gagcagtatt	ggactttag	cctgcagttg	2580
tcttttgact	tgacggccgc	agtgtctttc	tgttatgtga	atgagttcca	tggaggggca	2640
tatgtgtgat	tccaccgtta	gatgagccct	tggggcaggc	agtttgggat	gtgctcttgg	2700
gggaaagtgt	gctgtttcct	tgcgctctgc	tcctacccga	agtttttaag	tcctcttgaa	2760
ttgctcatct	gagattagta	gagtagcagg	cctgaaggat	gatggttttg	tcctcttttg	2820
ttctcacctg	cttgagaagt	aaaacagtaa	ctttgttctt	ctgggccctt	aagctttttt	2880
ggttaagtct	tccttttcag	aagtagatgt	cattatatgc	caaaaagtcta	gctctttgct	2940
ttaccataca	gggacctgtc	ccaaagaaaa	aggctctttt	tttagccagc	atatttcccc	3000
ttctaccctt	ttactttgtt	gttctgattt	taggactctg	gctggccatg	tgcttgtggt	3060
tgctctcct	gcatttgcca	ctggatttgc	actgcacgt	ttggagatac	aaagcgagca	3120
gttcttggtc	agaaccctcc	tctgcttttc	attgtgtttg	ataatggtta	ctgggtcctt	3180
ctctcaaggg	tagcaaggcc	aagctgatgg	ctgcttgttt	aggaggccat	cagttccttc	3240
ctgtggagaa	gggtctgaaa	tggaaagtcag	tggtagaagg	ggctggtctg	ctgggcaggg	3300
cttacatcca	ctgagttcta	agattccttt	cctgatctgc	acctacgcct	ggctctgatg	3360
gtggaatttg	tcagctggaa	ctcagaaaca	acaacttgaa	aaaaaaataa	taattagaac	3420
atatttgcat	aagatagcta	tttactctgg	aaaccaacaa	cttttgagat	ttcccttgcc	3480
ctgtggacgc	ccagctcctg	tcctccttcc	ttaggctcctg	cagtacagtc	ttcccttgaa	3540
tgccaccggg	gaccacggg	gactccaccc	ccctaagcaa	gcacacacat	actcacagtt	3600
gatgagttgc	tggctcttga	gtcccagctc	tcttaccctc	cctttactcc	accagcccga	3660
cgacccatga	ctgaggaggg	gatttctaca	gtctcaggat	ttagaaagtc	tgtaagccat	3720
ccatgctcca	gaaagcaccg	atctgtttga	gttgcaaaaa	caactctgta	atttgttgag	3780
gttctcaaac	tgacagccag	cgagactggg	tgggaggccc	tggatctgtt	ctccctgact	3840
gcgggaggag	cagccactag	gacttttagca	ggaagccac	atggaggctc	cgccaggctg	3900

tggcccagct	ggtgatggcc	cttttgctcc	tggcagcctg	aggcacagct	gcctgtattg	3960
tcctcatctg	ttctgactga	aggatggagg	tgctgaataa	attaggcctc	aggcntctac	4020
caccagagag	ctggagaatg	ggtccacgtc	attcaaggac	ctgaattttt	tatgctcagg	4080
agcat'tggaa	tcctcttctt	ccagggagga	attagcctgc	aagg'ttagga	cttgaagagg	4140
gaagg'tat'tt	aataactggg	cgaggatggg	tgtgg'tggct	cacac'tgta	atcccagcat	4200
tttgggaggc	tgagg'tggcc	agatcccaag	gtcagaagat	cgagaccatc	ctggg'taaca	4260
tgg'tgaaacc	ccatctctac	taaaaataca	aaattaaatt	ggccggg'cgt	gaa	4313

<210> 147

<211> 1183

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1053)

<223> n equals a,t,g, or c

<400> 147

ggcagagcct	caagctgact	tggattatgt	ggtccctcaa	atctaccgac	acatgcagga	60
ggag'ttccgg	ggccgg'ttag	agaggaccaa	atctcagggt	cccctgactg	tggtg'ctta	120
tcakwygggg	agtgtctact	cagctgctat	ggtcacagcc	ctcaccctgt	tggccttccc	180
acttctgctg	ttgcatg'cgg	agcgc'atcag	cctt'gtgttc	ctgcttctgt	ttctgcagag	240
cttccttctc	ctacatctgc	ttgctgctgg	gatacccg'tc	accacccctg	gtccttttac	300
tgtgccatgg	caggcag'tct	cggcttgggc	cctcatggcc	acacagacct	tctactccac	360
aggccaccag	cctgtct'ttc	cagccatcca	ttggcatgca	gccttcgtgg	gattcccaga	420
gggtcatggc	tcctgtactt	ggctgcctgc	tttgctagt'g	ggagccaaca	cctttgcctc	480
ccacctcctc	tttg'cagtag	gttgcccact	gctcctgctc	tggcctt'tcc	tgtgtgagag	540
tcaagg'gctg	cggaagagac	agcagccccc	agggaatgaa	gctgatgcc'a	gagtcagacc	600
cgaggaggaa	gaggagccac	tgatggagat	gcggctccgg	gatgcgcctc	agcacttcta	660
tgcagcactg	ctgcagctgg	gcctcaagta	cctctttatc	cttgg'tattc	agattctggc	720
ctgtgccttg	gcagcctcca	tccttcgcag	gc'atctcatg	gtctggaaag	tgtttgcccc	780
taag'ttcata	tttgaggctg	tgggcttcat	tgtgagcagc	gtgggacttc	tcctgggcat	840
agctt'tgg'tg	atgagagtgg	atgg'tgctgt	gagctcctgg	ttcaggcagc	tatttctggc	900
ccagcagagg	tagcctag'tc	tgtgattact	ggcacttggc	tacagagagt	gctggagaac	960
agtgtagcct	ggcctgtaca	ggtactggat	gatctgcaag	acaggctcag	ccatactctt	1020
actatcatgc	agccaggggc	cgctgacatc	tangacttca	ttattcwatr	attcaggacc	1080
acagtggagt	atgatcccta	actcctgatt	tggatgc'atc	tgagggacaa	ggggg'kcggt	1140
stccgaagtg	gaataaaaata	ggcggg'cgtg	gtgactt'gca	cct		1183

<210> 148

<211> 734

<212> DNA

<213> Homo sapiens

<400> 148

gaattcggca	gagtgaagca	ttagaatgat	tccaacactg	ctcttctgca	ccatgagacc	60
aacc'cagggc	aagatcccat	cccatcacat	cagcctac'ct	ccctcctggc	tgctggccak	120
gatgtcgcca	gcattac'ctt	ccactgcctt	tctccctggg	aagcagcaca	gctgagactg	180
ggcaccaggc	cacctotg'tt	gggacc'caca	ggaaagagt'g	tggcagcaac	tgcmtggctg	240
acctt'tctat	cttctctagg	ctcagg'tact	gctcctccat	goccatggyt	ggg'ccgtggg	300
gagaagaagc	tctcatacgc	cttcccactc	cctctgg'ttt	ataggacttc	actccctagc	360
caacaggaga	ggaggcctcc	tgggg'tttcc	ccrrggcag't	agg'tcaa'acg	acctcatcac	420
agtcttccctt	cctcttcaag	cg'tttcatgt	tgaacacagc	tctctccrct	ccctt'gtgat	480
ttctgagggt	caccactgcc	arcctcaggc	aacatagaga	gcctcctg'tt	ctt'tctatgc	540
ttgg'tctgac	tgagcctaaa	g'ttgagaaaa	tgggtg'ccaa	ggccag'tgcc	agtgtcttgg	600

ggccccctttg gctctccctc actctctgag gctccagctg gtcctgggac atgcagccag 660
 gactgtgagt ctgggcasgt ccaaggcctg caccttcaag aagtgggaata aatgtggcct 720
 ttgcttctat ttaa 734

<210> 149
 <211> 1405
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (604)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (842)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1079)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1334)
 <223> n equals a,t,g, or c

<400> 149
 ggcacagtgg accccagact ccctctccgc ctttctctgc ctgggggagac ccactgtgtg 60
 catggcatca ctgactccca tacctctggc tatcaaaggt ttctgccatg gccaccctgg 120
 aagsaaacca gagggaggtg gacagggaga tcaggtccct tctactctgg ttctgtctct 180
 gtgaaattgt ctcaggctgg ctgtgtccag arggtccctg gttctctcar ggatgccaaa 240
 tctacaagaa tctctcctct tccagttcct ataacctctc ctctcttttg tctctttaga 300
 ccttgagta gtagcagcca gggtctttct atctctgggt tagtgcatta tctctgggtg 360
 ctcccttacc caggactttg ggaatgggtct ttttgtaata cattctctct aaataattca 420
 attttgagtg ttctgtatgt atcctgctgg gaggttggtt tatacaaact actgtgcccg 480
 tttagcagag aaggagactg aagctcaggg aggttaagtg tctttctcta ggtcgtattg 540
 tggagaaaagt ggctgactgg ggacttgaat gaggtcccta gtttcatgct cggagggcaa 600
 agangaatgt ccaattggcc tgagataaag ctctggtaaa atgtactgta cataataggt 660
 aatcaataaa tgttggtgta tgacaaacat gttttctttg ttcattagtt atagtgatta 720
 tgttctaaat aactccmaca aggaartcag cacatttgga atatcawtat ctttccatga 780
 taatatcttt ccmvggaaag awaatgatat tccmaactgg gagtggtccw agcaratctg 840
 antctgtgta ttggccctgg ggtgggcccag ccccttagac tctatggtct cattctcttt 900
 gtttacaataa ttgagataag gccttattct ctccccaccc caccatcca tattgttttg 960
 agaataaaaat gagaggatgt gtgtcaaggg tgtatttttg caatagtctc tgagccattt 1020
 tctgagcacc tccatactgt tgacactcaa gtaatatctc atcagcatte cattcaggnt 1080
 cctcccttaa tgaggtgtgc gatgtacaag agtygtgagg tggcaaagga tgggctcctg 1140
 aggaaacact taggaaactg ggctttctgc cattaaaaga gacaaacctt tgtggtgacc 1200
 taattaaagt ttttaaaatt caatttgga agtttagcaag ctagctcctk tccaggwaaa 1260
 ataaggagtc agtgcatgac ctaaccggtc ccgggctgct tgccattcca aacaactgca 1320
 gtaagtttat cacnttcttt cagggaactga ggtttccagg cacagacttg gataaggaag 1380
 gatgtcctat ggggtcacat tgatg 1405

<210> 150

10004660-12001

<211> 2890
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> n equals a,t,g, or c

<400> 150

ttatatgcta	cagctacagt	aattttcttct	ccaagcacag	agganccttc	ccaggatcag	60
ggggatcgcg	cgctccttga	tgctgctgac	agtggctcgtg	ggagctggac	gtcatgctca	120
agtggctccc	atgataatat	acagacgatc	cagcaccaga	gaagctggga	gactcttcca	180
ttcgggcata	ctcactttga	ttattcaggg	gatcctgcag	gtttatgggc	atcaagcagc	240
catatggacc	aaattatgtt	ttctgatcat	agcacaaagt	ataacaggga	aaatcaaagt	300
agagagagcc	ttgaacaagc	ccagtcccca	gcaagctggg	cgtcttccac	aggttactgg	360
ggagaagact	cagaaggtga	cacaggcaca	ataaagcggg	ggggtggaaa	ggatgtttcc	420
attgaagccg	aaagcagtag	cctaacgtct	gtgactacgg	aagaaaccaa	gcctgtcccc	480
attgcctgccc	acatagctgt	ggcatcaagt	actacaaagg	ggctcattgc	acgaaaggag	540
ggcaggtatc	gagagcccc	gcccacccct	cccggctaca	ttggaattcc	cattactgac	600
tttccagaag	ggcactccca	tccagccagg	aaaccgccc	actacaacgt	ggcccttcag	660
agatcgcgga	tggtcgcacg	atcctccgac	acagctgggc	cttcatccgt	acagcagcca	720
catgggcatc	ccaccagcag	caggcctgtg	aacaaacctc	agtggcataa	aycgaacgag	780
tctgacccgc	gcctcgcccc	ytatcagtc	caagggtttt	ccaccgagga	ggatgaagat	840
gaacaagttt	ctgctgtttg	aggcacagac	ttttctggaa	gcagagcgag	ccacctgaaa	900
ggagagcaca	agaagacgtc	ctgagcattg	gagccttggg	actcacattc	tgaggacggt	960
ggaccagttt	gcctccttcc	ctgcctttaa	agcagcatgg	ggsttcttct	cccccttctt	1020
ctttccctct	tgcatgtgaa	atactgtgaa	gaaattgccc	tggcactttt	cagactttgt	1080
tgcttgaaat	gcacagtgca	gcaatcttcg	agctccact	gttgcctgct	gccacatcac	1140
acagtatcat	tccaaattcc	aagatcatca	caacaagatg	attcactctg	gctgcacttc	1200
tcaatgcctg	gaaggatttt	ttttaatctt	ccttttagat	ttcaatccag	tcctagcact	1260
tgatctcatt	gggataatga	gaaaagctag	ccattgaact	acttggggcc	tttaaccac	1320
caagggaagac	aaagaaaaaac	aatgaaatcc	tttgagtaca	gtgcttgtcc	acttgtttac	1380
aatgtcctcc	ttttaaaaaa	aaaaaaatga	gtttaaagat	tttgttcaga	gagtaaatat	1440
atatccattt	aatgattaca	gtattatttt	aaaccttaag	tagggttgcc	agcctggttt	1500
ctgaaaaacc	aaatatgccg	gacagggtgt	ggccacacca	agaagacggg	aagacctggc	1560
ttgtgaccct	ggcttcccat	gtccttctgg	tctcaccgcg	gaagtgcctt	atcctggaag	1620
tatgaaatgt	tagccaatta	ataccaagac	acctcatctg	ctccttcccc	agtggatggg	1680
gttcttctgt	aaaactgttt	gcacatggcc	aggggagggg	actaggaccc	ttgtgtcctg	1740
tctgagcctt	atggaggcag	gacggtgtca	ttggcggtatg	tgctctgctc	cattgagatg	1800
gatggcaaac	cccatTTTTT	agttatatTT	ctttgatTTT	tgTTaattTT	gagggtgtagg	1860
ttttgtTTTT	tgTTTTTTTT	ttttTTTTTT	agagaaacat	ttataactgg	atagcattgc	1920
agtgaagca	gcttgggatg	ttggagctaa	tgccagctgt	ttatactgct	ctttcaagac	1980
agcctccctt	tattgaattg	gcattagggg	ataaacaagc	ctttaaacgt	gataaaagat	2040
caaaaacctg	gttagacatg	ccagcctttg	caaggcaggt	tagtcaccaa	agactaacct	2100
ccaagtggct	ttatggacgc	tgcatataga	gaaggcctaa	gtgtagcaac	catctgctca	2160
cagctgctat	taacctata	atgactgaaa	tgacctctcc	actctatTTT	tgtgttgttt	2220
tgcacagact	ccggaagagt	gaaggctgcc	aatctgagta	gtactcaaat	gtgagggaact	2280
gctggctctg	gattTTTTTT	ccattaaatt	cagctgatca	tattgatcag	tagataaacg	2340
taaatagctt	caaattTTTaa	aagtgggaatt	gcagtgtttt	ttcactgtat	caaacaatgt	2400
cagtgccttta	tttaataatt	ctcttctgtg	tcatggcatt	tgtctacttg	cttattacat	2460
tgtcaattat	gcatttgtaa	ttttacatgt	aatatgcatt	atTTgccagt	tttattatat	2520
aggctatgga	cctcatgtgc	atatagaaag	acagaaatct	agctctacca	caagttgcac	2580
aaatgttatc	taagcattaa	gtaattgtag	aacataggac	tgctaattctc	agttcgctct	2640
gtgatgtcaa	gtgcagaatg	tacaattaac	tggtgatTTc	ctcatactTT	tgatactact	2700
tgtacctgta	tgtctTTTTag	aaagacattg	gtggagctg	tatccctTTT	gtattTTTaa	2760
tacaataatt	gtacatattg	gttatatTTT	tgttgaagat	ggtagaatg	tactattgtt	2820
atgcttctac	atccagtttg	tacaagctgg	aaaataaata	aatataacat	aaaaaaaaaa	2880

10004561-120701

aaaaaaaaaa

<210> 151
 <211> 2399
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (73)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (90)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (128)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (219)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (255)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (272)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2354)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2364)
 <223> n equals a,t,g, or c

<400> 151
 gaacttttcc atctggcaaa ccggaaactc catccccatt aaaccaactc ccccttttgg 60
 tttccccccc agnggaatag aatttggacn cccatataaa tccaggaaac cacctaaatt 120
 ctttagtngt ttgtgtttgc aagatctaag gtcattgtaa acattaagtt cttaaaattt 180
 ttgggaggga ccagtgcacc tctccctctg aattgttcnc caatttaaaa ttggagtaag 240
 gttttaaaat gtctnattcc attggaaggg tntgttattt cattttgagc ccagagggga 300
 gaggcacatt ttaaataatca gaattagatt agctttgagt ttgtacaatt gggaacataa 360
 tagattttca taaattatgt gtgccttggt ggaagtgtca actgtcttta tgtctgcttg 420
 taaaagtttc aaaatatgtt ttccctcaaa aaggcaacgt tacttcattt gcttgaatat 480
 tatgatagga atgcttactg atattacttg atagtcatat atagcctagg aaatttaaca 540

J00043650.120701

tatatataac	tatagcagta	ttataaatga	tagttgtact	tctttaaaac	attaaatttg	600
aggaaacttt	aatgctgtct	cgtgtacatt	gctttactac	agtgaggggg	aatatccttt	660
agattgagcc	tcaatttact	ggttagtagt	atgtgaactc	tggataaaaa	acgtaaacta	720
gacagtagag	ccgatgaatt	aaaattgtaa	attgctacat	tggcattttc	tacctccttt	780
tctgtcagag	tattactttt	tccagcattt	attcttattt	gtgagtaaag	aggaaatggg	840
aacctgaggt	taaaattgac	atTTTTgttt	cattgagaat	ttaagcagta	ggtacaggag	900
aagtgacttg	tcacattaat	ttggtgccta	aatctgtaac	tacaagttgt	gatcgacatg	960
tacaaaatgt	ctaagaaagg	tcatatgctg	aataTTTTac	TTTTcctgta	tagtctgcat	1020
gatttgtttc	ataaacccag	cttatttctt	ccaaaaagca	aaatgggtcct	gtaattttta	1080
aagtaaaata	aacgtgccat	tttgtctgca	atctataatt	tcaggaagtt	attgraagtt	1140
ctgactcagg	gctttttaac	agttcaagca	attgtcagtt	atattttgga	aactccatct	1200
gtgtaattct	ccagtgccct	gaaagaatta	ttacttggc	aacactatta	aaactttata	1260
aaagatggtc	tttagtgcac	gtgtatcatt	atatacacgt	tttaaagtca	tattgcttag	1320
cttgtttaata	atgattctgc	atgtgtgctg	ggtttgggta	attctttaaa	ggaagttttc	1380
tagatttgca	cttgatgttt	gttttttttaa	aactgattat	ttatggccgt	gacactgtta	1440
ccagaaaagt	aattctaatt	aagttattat	gcaaagtcac	ctataagtag	catctgggaa	1500
gaggagatsg	aggccacagt	ttgctatttt	agtatgaaag	gaggatctgt	ttgggaaaca	1560
tagattgtct	tccccctcaa	tgaggggaaa	aaaaaagacc	ctttgttcaa	atggattctg	1620
ttgtaaaaaa	ttatttttaa	aggaaatcac	aaattgtatg	tcattcttaa	tgtagtctt	1680
atagaataaa	tccataaaat	tgTTTTtatg	ttcagtatgt	ttatgtcatt	ctaaatgcag	1740
caaattcaat	gatagcagtt	caattgactc	atagcagtgt	tttgtatttt	ttctaattct	1800
ttagctttca	atattggatt	aaagtcttgt	tttgtaatat	agtttccgta	tggcaaataa	1860
tttcttgctt	attagctttt	gttaaagaat	gcttagtaag	agctaagctt	ttaaaagtaa	1920
tgcaaacatt	tatcgttaat	aaaacctatg	gtgtaatatc	atataatgct	tttctttgat	1980
ctttggagaa	ttattctttt	atagtagtat	acatgaattt	tgatttttaa	agcattttaa	2040
aacaaatctc	aatacattaa	aaaacctgtt	attgttaaaa	rggaaattac	catgccttta	2100
agaaacaagg	atgtacatct	tcaattcagc	atragtgtcc	acatctagaa	ggctctcatt	2160
gcagttgttt	acagtttaagg	tacctctatc	taaagggcca	aagaagcatt	tcatayttta	2220
acacctcaca	ttctttcagg	attaagacat	atgaaaatag	tctgaatagg	ataaatttgg	2280
ataggaagta	acttaaccag	tctgggaaga	ttcaggcttt	ttctatkaaa	aagcttattc	2340
ctcttcacaa	ctcnggtggt	aggntttcat	ttttcaagag	ggtagatatt	ttaaagcca	2399

<210> 152

<211> 802

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (755)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (757)

<223> n equals a,t,g, or c

1004560.120701

<220>
 <221> SITE
 <222> (777)
 <223> n equals a,t,g, or c

<400> 152
 cgtgcctgta gtaagctcat ccctgccttt gagatggtga tgcgtgcca ggacaatggt 60
 taccacctgg actgctttgc atgtcagctt tgtaatcaga gattntgtgt tggagacaaa 120
 tttttcctaa agaataacwt gaycctttgc caracggact acgaggaagg tttaatgaaa 180
 gaaggttatg caccmcmgt tcgctgatct atcaacatca ccccatthaag aatacaaaagc 240
 actacattct tttatctttt ttgctccaca tgtacataag aattgacaca ggaacctact 300
 gaatagcgtg gatataggaa ggcaggatgg ttatatggaa taaaaggcgg actgcatctg 360
 tatgtagtga aattgcccc gttcagagtt gaatgtttat tattaagaa aaaagtaatg 420
 tacatatggc tggatttttt tgcttgctat tcgtttttgt gtcacttggc atgagatggt 480
 tattttggac tattgtatat aatgtattgt aatatttgaa gcacaaatgt aatacagttt 540
 tattgtgtta ccattttgtgt tccattttgct yctttgtatt gttgcattta gtacaatcag 600
 tgtttaaact tactgtatat ttatgctttc tgtattttacc agctatttta aatgagctgt 660
 aactttctag taaagaettg aaaagcaaat cctcactaaa ggatacacag gataggataa 720
 agccaagtcn catcaacatt aaaaaatact aaananaaaa acacaaaaaa aaaaaanccc 780
 gggggggggc cggaacccat tc 802

<210> 153
 <211> 461
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (77)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (437)
 <223> n equals a,t,g, or c

<400> 153
 ctaggagcac cgagcagctt ggctaaaagt aagggtgtcg tgctgatggc cctgtgcgca 60
 ctgacccgcg ctctgcnctc tctgaacctg gcgccccga ccgtcgccgc cctgccccg 120
 agtctgttcc cgcgcgcca gatgatgaac aatggcctcc tccaacagcc ctctgccttg 180
 atgttgctcc cctgcgccc agttcttact tctgtggccc ttaatgcca ctttgtgtcc 240
 tggaagagtc gtaccaagta caccattaca ccagtgaaga tgaggaagtc tggggggcga 300
 gaccacacag gtgggaacaa ggacaggggg atttaagcag tcaaaaggaa aaacatgtta 360
 agaccctaga cttgtatatt gacacacttg taccttgtaa ggcagaggaa tgtaattaaa 420
 aagcacttat ttggcwnaaa aaaaaaaaaa aaaaaaaaaa c 461

<210> 154
 <211> 2388
 <212> DNA
 <213> Homo sapiens

<400> 154
 gcccacgcgt ccgaaagcgg agaacgctgg tgggcctggt gtggagtacg ctttggactg 60
 agaagcatcg aggctatagg acgcagctgt tgccatgacg gccaggggg gctgggtggct 120
 aaccgaggcc ggcgcttcaa gtggggccatt gagctaagcg ggcctggagg aggcagcagg 180
 ggtcgaagtg accggggcag tggccaggga gactcgctct acccagtcgg ttacttggac 240

10004560.12001

aagcaagtgc ctgataccag cgtgcaagag acagaccgga tcctgggtgga gaagcgctgc 300
tgggacatcg ccttgggtcc cctcaaacag attcccatga atctcttcat catgtacatg 360
gcaggcaata ctatctccat cttccctact atgatgggtgt gtatgatggc ctggcgaccc 420
attcaggcac ttatggccat ttcagccact ttcaagatgt tagaaagttc aagccagaag 480
tttcttcagg gtttgggtcta tctcattggg aacctgatgg gtttggcatt ggctgtttac 540
aagtgccagt ccatgggact gttacctaca catgcatcgg attgggttagc cttcattgag 600
ccccctgaga gaatggagtt cagtgggtgga ggactgcttt tgtgaacatg agaaaagcagc 660
gcctgggtccc tatgtatttg ggtcttattt acatccttct ttaagcccag tggctcctca 720
gcatactctt aaactaatca cttatgttaa aaagaaccaa aagactcttt tctccatggt 780
gggggtgacag gtcctagaag gacaatgtgc atattacgac aaacacaaag aaactatacc 840
ataacccaag gctgaaaata atgtagaaaa ctttattttt gtttccagta cagagcaaaa 900
caacaacaaa aaaacataac tatgtaaaca agagaataac tgctgctaaa tcaagaactg 960
ttgcagcatc tcctttcaat aaattaaatg gttgagaaca atgcataaaa aaagttgcac 1020
aagttcctta ttttccctaa tatttcactt ctatttaata caagctggga cataaaaaatt 1080
ctggttgggga tacctggggg aagatgtgag aaactaatgc tgaattcagc ttatacatga 1140
tgaaaagaaa aaccagacaa aaggagcaca taaatatgca tacagtgtaa ctgttattat 1200
tttaataccc acgataaggg atttttgtta gcatgttttag ggggaacgag gattgggtggg 1260
atccttgggg ccacaggaat ctgaggcaac ggaagatata tagagtgatc gtccccctgc 1320
cgaaggaacc tggcayctgt caagcagatg ctgcagttca aacttcagct ttttaagatag 1380
atagctattg aaggcagagg gtcagcagga ggaatgtgat ttctaatacta ccttggtaaa 1440
gtcataggta agactcaaaa gcgggatctt attcaaaaagg caggtatttc ctttgttttc 1500
tgtcttgaaa tagccccctc ccctaagggtg cattctctca agttttcagt attgctttat 1560
ttgcagtgat taaaagagat gagagacttt ggagacagac aacgtaagca acacatacac 1620
acatgaaata ctctagacag agatgaatat aaatctggcc taataaccag ttttccatgt 1680
aacagtgatt ttgtgtttcg ggctgaagca gtggttatat taaaagccac taattccctt 1740
atccctttta aagattttta caattctcca accacaaaaca gcacttctaa aactaacttt 1800
actttctgcc cataatttgt tctacatgga aaaaaaaaaat attacttttg ccaggggtgt 1860
gtgtaaatgt ggcagaatcc ctaggcaggc tgacctttac agtatgggcc ttttaagatac 1920
tggatccctg ttgggcaaca agtgtcacgc ctgaagtttc tgaaaacaaa ttagaagact 1980
gttggcttggt ctaatctcgt agtttcagggc caagtttctg tagtcagaat gaagaataaa 2040
attgaaagaa aaagggggaa atgcttatac ttggcattaa gttgaatgcc tcaagtctta 2100
actatggctt tgtagattgag gcaaaaagatt tcttagtggt aaaatttctt caacagggtca 2160
atgccaatct gtatgccatt ttagtaaaagt aggtaaggag agtagccgct cagtaacttt 2220
ggcactaaag aaagagtgtg gctctagaac ttccaatccc attgctagat gtgcccttta 2280
aaagatggtc cagtgccttc agggaaggat gtttagccag ttttcctagt atttgttctt 2340
taagattttt tgacctgtgc ttaataagac ggacgcgtgg gtcgaccc 2388

<210> 155

<211> 642

<212> DNA

<213> Homo sapiens

<400> 155

aaaacagacc atttaaaaac tcagacaaga ttatatttta tatattaatt actaaaaagg 60
cacaagatta cactgaacat attagctact aaaaaggcac tgctaagaca ttcaagcaaa 120
tagctattac acactactgc agatttttaca ggttttcta tctaacatat gtttgaaaaa 180
tccgtgagta ttocaaaata tattttaataa tggaatatct gcattaatat accatccatg 240
tgtttttacc atttgcotta atattgaata tactgtttac ctacactaa aaagaaaacc 300
agaagcctta tttgtgattt tgggagtggg agcttccatt tttgtgtcaa aaatgaatcc 360
tgattcttat ggaaatctct gttatttaaga tatttcaaga tgagacaaca ctgaagatca 420
aattgtgttt agtatcacta tcttctctcc tcgtttctct cttactcctc atcctcccag 480
aatctaccag tttatggtag aaagatggga acctattttg aatgtgtttt tttttttcca 540
tgatgtccaa ttttgttgtg ggaaaggatt tggataaaat ttttgtttta attttggtag 600
atttttatct atacaaaatt aaataaaatt atgttttcta ag 642

<210> 156

<211> 1251
 <212> DNA
 <213> Homo sapiens

<400> 156
 gccgctgccc ctccacggag ttgctgatca tctgggctgt gatccacaaa cccggttctt 60
 tgtccctcct aatatcaaac agtggattgc cttgctgcag aggggaaact gcacgtttta 120
 agagaaaata tcacgggccc ctttccacaa tgcagtgtct gtagtcatct acaataataa 180
 atccaaagag gagccagtta ccatgactca tccaggcact gagcatatta ttgctgtcat 240
 gataacagaa ttgaggggta aggatatttt gagttatctg gagaaaaaca tctctgtaca 300
 aatgacaata gctgttgga ctcgaatgcc accgaagaac ttcagccgtg gctctctagt 360
 cttcgtgtca atatccttta ttgttttgat gattatttct tcagcatggc tcatattcta 420
 cttcattcag aagatcaggt acacaaatgc acgcgacagg aaccagcgtc gtctcggaga 480
 tgcagccaag aaagccatca gtaaattgac aaccaggaca gtaaagaagg gtgacaagga 540
 aactgaccca gactttgatc attgtgcagt ctgcatagag agctataagc agaatgatgt 600
 cgtccgaatt ctcctctgca agcatgtttt ccacaaatcc tgcgtggatc cctggcttag 660
 tgaacattgt acctgtccta tgtgcaaact taatatattg aaggccctgg gaattgtgcc 720
 gaatttgcca tgtactgata acgtagcatt cgatatggaa aggctcacca gaaccaagc 780
 tgttaaccga agatcagccc tcggcgacct cgccggcgac aactcccttg gccttgagcc 840
 acttcgaact tcggggatct cacctcttcc tcaggatggg gagctcactc cgagaacagg 900
 agaaatcaac attgcagtaa caaaagaatg gtttattatt gccagttttg gcctcctcag 960
 tgccctcaca ctctgctaca tgatcatcag agccacagct agcttgaatg ctaatgaggt 1020
 agaatggttt tgaagaagaa aaaacctgct ttctgactga ttttgccttg aaggaaaaaa 1080
 gaacctattt ttgtgcatca tttaccaatc atgccacaca agcatttatt tttagtacat 1140
 tttatttttt cataaaattg ctaatgccaa agctttgtat taaaagaaat aaataataaa 1200
 ataaaaaaaa aaaaaccccg gggggggccc ggtccccaat tggccctatg g 1251

<210> 157
 <211> 2127
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (312)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1212)
 <223> n equals a,t,g, or c

<400> 157
 ccggcgggag aggggaagctg cagcgagagg cgcggatctc agcgcgggag cagtgccttct 60
 gcggcaggcc cctgagggag ggagctgtca gccagggaaa accgagaaca ccatcaccat 120
 gacaaccagt caccagcctc aggacagata caaagctgtc tggcttatct tcttcatgct 180
 gggctctggga acgctgctcc cgtggaattt tttcatgacg gccactcagt atttcacaaa 240
 ccgcctggac atgtcccaga atgtgtcctt ggctcactgct gaactgagca aggacgccc 300
 ggcgtcagcg cncctgcag cacccttgcc tgagcggaa cctctcagtg ccatcttcaa 360
 caatgtcatg accctatgtg ccatgctgcc cctgctgtta ttcacctacc tcaactcctt 420
 cctgcatcag aggatcccc agtcctgacg gatcctgggc agcctgggtg ccatcctgct 480
 ggtgtttctg atcactgcca tcttggtgaa ggtgcagctg gatgctctgc ctttctttgt 540
 catcaccatg atcaagatcg tgctcattaa ttcatttggg gccatcctgc agggcagcct 600
 gtttgggtctg gctggccttc tgccctgccag ctracacggc ccccatcatg agtggccagg 660
 gcctagcagg cttcttttgc tccgtggcca tgatctgcgc tatttgccagt ggctcggagc 720
 tatcagaaag tgccctcggc tactttatca cagcctgtgc tgtkatcatt ttgaccatca 780
 tctgttacct gggcctgccc cgcctggaat tctaccgcta ctaccagcag ctcaagcttg 840

10004360 120701

aaggacccgg ggagcaggag accaagttgg acctcattag caaaggagag gagccaagag 900
caggcaaaga ggaatctgga gtttcagtcct ccaactctca gccaccaat gaaagccact 960
ctatcaaagc catcctgaaa aatatctcag tcctggcctt ctctgtctgc ttcattctca 1020
ctatcaccat tgggatgttt ccagccgtga ctggtgaggt caagtccagc atcgcaggca 1080
gcagcacctg ggaacgttac ttcattcctg tgctctgttt cttgactttc aatatctttg 1140
actggttggg ccggagcctc acagctgtat tcatgtggcc tgggaaggac agccgctggc 1200
tgccaagctg gntgctggcc cggctgggtg ttgtgccact gctgctgctg tgcaacatta 1260
agccccgccg ctacctgact gtggtcttcg agcacgatgc ctggttcate ttcttcatgg 1320
ctgccttttg cttctccaac ggctacctcg ccagcctctg catgtgcttc gggcccaaga 1380
aagtgaagcc agctgaggca gagaccgcag agccatcatg gccttcttcc tgtgtctggg 1440
tctggcactg ggggctgttt tctccttccg gttccgggca attgtgtgac aaaggatgga 1500
cagaaggact gcctgcctcc ctccctgtct gcctcctgcc ccttccctct gccaggggtg 1560
atcctgagtg gtctggcggg tttttcttct aactgacttc tgctttccac ggcgtgtgct 1620
gggcccggat ctccaggccc tggggaggga gcctctggac ggacagtggg gacattgtgg 1680
gtttggggct cagagtccag ggacgggggt tagcctcggc atttgcttga gtttctccac 1740
tcttggctct gactgatccc tgcttggtga ggccagtggg ggctcttggg cttggagaac 1800
acgtgtgtct ctgtgtatgt gtctgtgtgt ctgcgtccgt gtctgtcaga ctgtctgcct 1860
gtcctggggg ggctaggagc tgggtctgac cggtgtatgg tttgacctga tatactccat 1920
tctccctgc gcctcctcct ctgtgttctc tccatgtccc cctcccaact ccccatgccc 1980
agttcttacc catcatgcac cctgtacagt tgccacgtta ctgccttttt taaaaatata 2040
tttgacagaa accaggtgcc ttcagaggct ctctgattta aataaacctt tcttgttttt 2100
ttctccatgg aaaaaaaaaa aaaaaaa 2127

<210> 158
<211> 1625
<212> DNA
<213> Homo sapiens
<220>
<221> SITE
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1066)
<223> n equals a,t,g, or c

<400> 158
caaaagatct ataatcagga cattgtttat gtaagttgga caanaaaaaat tcttccccctt 60
tatgtccacc cttcctatga ttgcaagaca aaatttccct cctttacctc atccctataa 120
catgggaggc tgagaaaaat gaggggagat ggaaccagat acaaggagat ccaataagag 180
aagcttattt aaatattgtg aaataaaagga agamccaaag cattttttta agtggggaat 240
ccttttgaac agttattatt tatccatatt attaayaaca tcttttctga caaaatccat 300
cagatgaagt gtaaatggat aatcctttta tggatctaaa cctagaaagt ttcacttact 360
gttcatgtcc gtgttccaga attgtgaaat ggtgtgtggg tttgctttcc aagtctctct 420
ctgcctcctc ttaattctct aattccatgt cttacagaag aatgagaaat ttctttctta 480
cttgagtatc atgctctaaa aaacttggct tcagtcacag aaacgctggc tctcctgtgc 540
ttatattgaa gccaaactgcc ttttaattctt gggccctctt atatttttaa ggtgcaaaat 600
ttgaagtctc agtcaccaga cacagggtct atacaattaa tgatgagctg gagaagtaat 660
atgtagctaa tttttcaaaa gcattgaata tactttccgg aaagaaaaca gaaattaaat 720
attgccacat cttgccagaa tcccattctga caccttaact ttgtcagggt tcttacaact 780
tgctaatcaa gttttataca ttctaaatct cccagtttct tttggggctg gaagatgcaa 840
cttccattta atagaaactt tgaaatcttg gggtaaggga gcagtggggg gactaggagg 900
aaggataaga aatagaatta ttgaaaagcc cccaccaggg accttccctg ccagaatatg 960
cagagtaatt cctgctgggt tcacctttga aagtcctctg aaactatgca gatgaaactg 1020
agtctgtttt tgatattgtc agatgtattc taccttgga gttcccnacac ctaaactgga 1080

10004950-120701

attcttgtat	ttacatctcc	tccactgtcc	cccacaccac	ccctcaattc	ctgctgcccc	1140
tgctaattgtt	aagcattttt	ctcttggtat	catcagggtc	acattaaaam	cagrtactta	1200
caaaactgact	tgaagcacag	atacttttac	gaatgtgata	aaatattttc	ttaagaaaag	1260
gaaagaggat	gtgggtcaaa	taaaacaccg	catggatgtt	gattgggtgaa	tactgggtga	1320
agaaaaggga	gctcaggaat	ttttattact	gtatttgtaa	atgagtttga	aggaatttgt	1380
aaatgccact	ggtacatttt	taagggtgaca	catttgctcc	ttataaaagt	attaaaaatt	1440
acagggtgtaag	cttaaagtac	gtttgccagt	agttttactt	tatataatca	atattgatat	1500
tgttgctgaa	ctatgtaact	ttatgatgca	tttttcagtc	ccttttcaga	gcaaagtctt	1560
ttgcaatggg	agtaatgttt	agtttaaatt	gacttaataa	attmttacct	gagcaaaaaa	1620
aaaaa						1625

<210> 159

<211> 1687

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (505)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1044)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1670)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1678)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1683)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1684)

<223> n equals a,t,g, or c

<400> 159

cggggtcacc	agttattaga	ggaagtaaca	caaggggata	tgagtgcagc	agacacattt	60
ctgtccgatc	tgccaaggga	tgatatctat	gtgtcagatg	ttgaggacga	cgggtgatgac	120
acatctctgg	atagtgacct	ggatccagag	gagctggcag	gagtcagggg	acatcagggg	180
ctaagggacc	aaaagcgtat	gcgacttact	gaagtgcgaag	atgataaaga	ggaggaggag	240
gaggagaatc	cactgctggg	accactggag	gaaaaggcag	tactgcagga	agaacaagcc	300

10004860.120701

```

aacctgtggt tctcaaaggg cagcttttgct gggnatcgag gacgatgccg atgaaggccc 360
tggagatcag tcaggcccag ctgttatttg agaaccggyg gaagggacgg cagcagcagc 420
agaagcagca gctgccacag acaccccctt cctgtttgaa gactgagata atgtctcccc 480
tgtaccaaga tgaagcccct aaggnaacag aggcttcttc ggggacagaa gctgccactg 540
gccttgaagg ggaagaaaag gatggcatct cagacagtga tagcagtact agcaktgagg 600
aagaagagag ctgggaaccc tccgtggtaa gaagcgaasc gtgggcctaa agtcagatga 660
tgacgggttt gagatagtgc ctattgagga cccagcgaaa catcggatac tggaccccga 720
aggccttgct ctaggtgctg ttattgcctc ttccaaaaag gccaagagag acctcataga 780
taactccttc aaccggtaca catttaatga ggatgagggg gagcttccgg agtgggtttgt 840
gcaagaggaa aagcagcacc ggatacgaca gttgcctgtt ggtaagaagg aggtggagca 900
ttaccggaaa cgctggcggg aaatcaatgc acgtcccac aagaagggtg ctgaggctaa 960
ggctagaaag aaaaggagga tgctgaagag gctggagcag accaggaaga aggcagaagc 1020
cgtggtgaac acagtggaca tctncagaac gagagaaagt ggcaacagct cgaagtctct 1080
acaagaaggc tgggcttggc aaggagaaac gccatgtcac ctacgttgta gccaaaaaag 1140
gtgtggggccg caaagtgcgc cggccagctg gagtcagagg tcattttcaag gtgggtggact 1200
caaggatgaa gaaggaccaa agagcacagc aacgtaagga acaaaagaaa aaacacaaac 1260
ggaagtaagc agagctgcca ggctcccagg agagcatggg gactaggagg aaggggtgtg 1320
catggctcag tctggccccc ttgattaccg gcctagcccc tgctcacatc acagctgtct 1380
gaagaacagt gaggtggagt gcctagaact cccgtgggtg tcctgagcag agaggaggat 1440
gtcctcctgc ctgcctgaag gtctcccatg aaaacactgc tgaactgtgt tgacactcat 1500
gacccttttt ttaaaccgtt aaagggaagt tcggtgttgg agcgatactc aatgtagtca 1560
gtctacacct ggacgtgtgg gccacttaag ccctccccac cccatccta ttcctraata 1620
aaaccaggat aatggaaraa aaaaaaaaaa aaaaaaaaag gggggggccn taaaggggcc 1680
cannttt 1687

```

```

<210> 160
<211> 1842
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (19)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (62)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1793)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1834)
<223> n equals a,t,g, or c

```

```

<400> 160
ggatgacaga ttgcgacana gattttgtgac ctttcctgct gaacttcaga gggagctgaa 60
ancagcgtat gatcaaagac aaaggcaggg cgagaacagc actcaccagc agtcagccag 120
cgcactctgtg ccccgagaat cctttacttc atctaaaggc agcagtgaaa gaaaagaaaa 180
gaaacaagaa gaaaaaaacc attggttcac caaaaaggat tcagagtccct ttgaataaca 240
agctgcttaa cagtccctgca aaaactctgc caggggcctg tggcagtcct cagaagttaa 300
ttgatgggtt tctaaaacat gaaggacctc ctgcagagaa acccctggaa gaactctctg 360

```

```
<210> 161
<211> 770
<212> DNA
<213> Homo sapiens
```

<400> 161																							
ggc	cag	agc	ct	atg	ctg	tt	ctt	gtg	ata	aa	tga	gtg	ag	tc	aca	aga	tc	tgg	tgg	tgt	60		
at	agg	cat	ct	gg	catt	ttccc	ctg	ctg	acg	tc	att	ct	ct	tc	ctg	cc	acc	ctg	gga	aga	120		
gt	gt	ct	ct	ctg	tc	atg	att	gt	aa	gt	tt	ct	ctg	agg	cc	t	ccc	ag	ct	at	gtg	180	
ca	attaa	aac	tc	ct	tt	ct	ct	ct	ata	aa	att	at	c	ag	ct	ct	t	ta	tt	ct	ct	240	
aga	ac	aga	ta	at	acc	g	ata	aa	tc	ac	ag	ag	at	gg	gt	gt	g	ct	at	aa	aca	cat	300
g	aaa	t	gt	ta	aa	g	caa	aa	tt	gg	aa	ct	gg	gt	aa	ca	gt	tk	ga	aga		360	
c	ag	tt	a	aga	aa	ga	aa	ca	gga	aa	at	at	g	aga	aa	ct	ct	t	aga	g		420	
ct	c	aga	a	ag	ac	at	g	at	gt	gg	ga	ag	ct	tt	gg	aa	ct	ct	ag	ag		480	
tt	g	ac	ca	aaa	tg	ct	g	at	ag	at	g	g	ac	a	tg	ct	g	ag	ct	at	cc	540	
ac	ata	a	aga	ag	ct	g	ct	g	gg	ga	ac	tt	g	ag	ta	aa	ga	at	ca	ct		600	
gg	c	ct	tt	tt	tt	ct	ct	g	cc	ct	ag	ag	at	ct	g	g	aa	at	ct	g	aa	660	
g	g	t	at	ct	g	gc	aga	aga	aa	ta	ct	a	ag	cc	tt	cm	ag	ag	ga	gc	ata	720	
g	tt	t	g	aaaa	aaa	tt	g	c	ag	cc	g	ac	na	t	g	g	ga	ac	ca	aa	gt	770	

```
<210> 162  
<211> 519  
<212> DNA  
<213> Homo sapiens
```


<400> 162

gaattcggca	cgagctgaga	ggcacaggag	caacagccag	tgccccctgc	agaggaccac	60
tggggtcaca	gacttcarac	ctgatgacct	gggctcagat	cccagctctg	cacctaccag	120
ccgtgtgaca	aggtgtcctc	tctgagcctc	agtcacacac	tgcccttaacg	gttgggcctc	180
atggagctgt	ttgtgaaggt	taaatgggaa	gacataaagc	acttagccca	gagccaagga	240
catgctgaat	aggataatgg	tggcctcctt	tggcgctgtg	ctgggtgcagg	tgtgccgagg	300
aaytgggcag	gggtgacaga	tacctcttct	aacctagtct	ctttccaaga	acctaattgg	360
tgtctctccc	tccccaggc	aattggaagg	aggaggctgg	gccccagccc	cagaatacgg	420
gaggtttctc	accgtggtag	ggaaattgct	gggttggggg	tgtgggcaac	cacagtgatc	480
gtctctctgc	aggacggatg	aggctttgct	gacagagggc			519

<210> 163

<211> 753

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (720)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (736)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (741)

<223> n equals a,t,g, or c

<400> 163

ggcacgagcg	gcacgagcag	ccagttgctg	actggcacat	ggcctccagc	gtccccggetg	60
gtgggacac	tagagccgga	gggatcttct	taattggtaa	attggatctt	gaagcttcac	120
tgtttaaatc	ttttcagtg	cttccctttg	tacttagaaa	aaaatgcaac	ttctttctgct	180
gggactcatc	cgctcacagc	cttccccctc	accctctctc	tgccctcatgc	tctgccccctg	240
cctgccatgc	ctccgatact	caccttttgt	accccagcac	ccgtgccctc	tgccccctcga	300
tctttgcctg	gctgggttgc	cctcactcag	tgttcaggac	aaatgctcct	ggccctaccc	360
catctagcca	gtctagcccg	gtcttccctg	tcttccctgt	ttcattcatg	gctcttattg	420
tttgttwact	tgtgtgctgt	tgacttttaa	ctctctcagt	ccccactgga	atgcaagcga	480
tctcccaagc	tcctagaatt	gttccctgct	cttcacaggg	ccttacgctg	tgtgtgctcg	540
tgccgaattc	ggcacgaggg	tatgtgcact	tgctgggtatg	tatgtagggtg	tttgctaaca	600
catacgtgca	cacgcagaat	gcttccaggg	gactgcacag	cctctagtct	gcagccccca	660
ccccctccctt	tgsccttgca	ctctccccctc	tctgagctgc	attcgcatga	aagggtgcan	720
ggttcctgan	cccgcnagcg	ncacctcctg	gga			753

<210> 164

<211> 1893

<212> DNA

<213> Homo sapiens

10004560.120701

<400> 164

tcgagttttt	tttttttttt	ttttttttkt	aattttaaca	aataccaaaa	gctttattta	60
agcaaaaaa	cattcaacca	cagaacattc	agaaagctaa	caggatcatt	tctacattca	120
ttctgcaaac	agtgtagtaa	gaaaggtaat	ttgagaattt	ccaagatgt	tctcgctagc	180
cattatttat	ggtaattaca	taacattttg	atgtcaagtt	attacagact	taaaagttaa	240
tatagcataa	ttttacaatc	gtactttcac	tatgattttt	attttaaccc	tggatattat	300
tggtttgaag	ctaataattat	cagtcctatt	ggctgtcact	gtcacagatc	tgaagatatg	360
ttttaaattca	tcaagctagg	aagatatcaa	aatattaaca	atcttcaagt	atagtggagaa	420
aaaaactgat	ttaagtgtta	gcattttctaa	acttgagact	ctaacagtaa	aaacaaagta	480
atctgaaacc	tgttttccatg	ggtaaaacac	tctgcctggg	attcttgtac	acaaaattta	540
ctaaatatgt	gaatatcata	aaatgaaaat	atcactccct	tcaatttctt	tggccttcac	600
aaattcaatg	tgactatgat	ccttttcaat	aatacttyca	atgacattgt	gcttcttttag	660
aaaaatcact	taagttgtag	catacaatag	ttaacattag	ttctttttatt	gctatggtat	720
atgctaattt	ttttaaaagg	ggaaaaaaa	acccagagaa	cttattaaaa	tgtttgttaa	780
agcaaacatt	tcagttgggt	tccttttctt	gaagaataat	agaaataaat	gtcagaggag	840
tattactaag	gagccaaaac	aaacaaacaa	acaaaaaac	aaaaaactcc	tttattactc	900
ccatcctcag	aactaactca	agacaagaga	tctgtattca	aaaagataaa	acaatctcat	960
ctcagtaact	acctcctatg	aaacctaaga	gagaaaacct	gtaatagctc	tcttaaccaa	1020
cagcccccac	gtcacatcac	caagcaccag	ttccctttgg	gtagcagtaa	tgcttgtttt	1080
tcacttttgc	atattaagga	ctggtgttaa	cagatttatg	ggtcatttgt	agcttacttt	1140
gcaaatacct	ttcacttctt	atgaaacaca	atatgcccc	aaacatggac	cattattcaa	1200
gtagacaaaa	tcactcactg	acagcacttt	aacaacccgc	ctccactyca	tcttcccatt	1260
ctctcaccc	atgccttcca	atgaacctag	tctttgctag	tgatgagtcc	atctggggac	1320
aaatactgct	ttaaagatga	tgtaattttc	aatgcccaacc	acagtgaact	tcccataata	1380
ggtattaata	aacacttggt	gacatagtta	taataagcta	aaaatagtta	acattaattt	1440
tgctctttat	cttttattct	tatggcatag	aattttattt	aaaagactga	aaaactgatt	1500
ccaatgtaat	aatcacttac	tggggccacac	gctagatgac	agacatgcct	ccctgcctaa	1560
aaagggctca	aaggaactct	cagttataca	tgagtgaatt	aaaactttta	atgtactaca	1620
agaaagaact	ttttatatga	aggattcttt	atgtagagta	tcttttttga	aaaatcagat	1680
tttcttatcc	tatattacac	tggtttta	tgggcatgct	cacttttagtg	gtgtgcctca	1740
ttacaatgtc	tcttttgtgt	taagaattaa	cttacaaaag	cattttaaaaa	tcactacatc	1800
aaatgggata	gagagtaaga	agacaggaga	gagaggagaa	accatgtttt	ttcggacgcg	1860
tgggtcgacc	cacgcgtccg	cggacgcgtg	ggc			1893

<210> 165
 <211> 2153
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (101)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1670)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2134)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2135)

<223> n equals a,t,g, or c

<400> 165

caggcctcag	ggcctctggt	ggcctctggcc	cagacagtat	ttgcagttct	tgtgctatgg	60
gtgggagtct	tcttccctcaa	gtttcggcag	ctgtgctgtg	ncctggatggg	ctgctcctcc	120
cagggctcaa	gggctgtggt	ccgctcaggg	tctcatttcc	ccaggccaag	ttcaaggcag	180
cagccctttg	tgaggcgctc	ttggccctgg	gctggaggga	gaactttaag	cttttttgct	240
cacagggacg	tggtatgggc	cctgggtgca	gggcccaca	ttctgcta	gagagctttg	300
tctgatcagt	cctgggtcca	tcagtttgtc	catgtgtccg	gctgccagcc	cgtcccttgg	360
gatccctccc	ctggggtgta	gccttgttca	ttagatatata	ctcattcctt	catgctttcc	420
tcagcagaac	acttccactt	ctgaggtgag	cttttgcccc	rtgcccttcc	tccacaggtg	480
ttgccttttt	ataaagacct	gatagcagaa	taaattgggtg	tttccctgtt	gacccagcac	540
cattttctgtg	ggcctagaat	atggccctca	acccttagag	tggggcagtg	agggcttgag	600
gagtgaacct	tcctttctca	tggttttagt	cattttggct	gccagccctt	aatggcacag	660
atctgctgct	tctaacagat	ggccaggagg	tgacaccgat	ttcagccatt	gccaaggtta	720
gcaccctctc	ctttgagcct	agggccacac	tgttcattgt	cacttttagg	aagtgcctgt	780
ttggcttttaa	aggtaagcct	gccagctgtg	agaagccttg	gtaactgatg	gactcatttc	840
ctggctcctta	aagatgcagc	ctcttaaggg	ctccttgatg	gatgccatct	ctcctagccc	900
ccagccctgg	tgccactggt	gggcagggtt	ccattctttg	gggctgggag	ggacagcttg	960
cctgtttctg	gtcacaaatt	acagtcttct	ctcctgtacc	attctgtggc	ttcagcatgg	1020
gggcagtagc	ctttcattag	tgtagatagt	cattccctgg	taggggtggag	ggtaagacat	1080
agggctctgga	actgtttggg	accttttggg	gatgtcctgt	gcctcccaga	ttcctmgatt	1140
ctgggaggag	aggctgccc	attctgctgc	tcctcacagc	gagcaaagct	gcacccactt	1200
acattcagta	ttttcctggc	actacaaaga	gtgggaaggc	ctgggatttg	ctgctgctcc	1260
cttagagcag	ggcccttytt	ttcagcactt	tggaacacctg	gagacccagc	cctgttattt	1320
aatggtagtg	ggcaagtgtg	tgtgcatact	gtctgccact	gctttctccc	tgccccatgc	1380
cagagagccc	tgtccctgcc	aggcccagcc	ttcttagccc	caacttggga	acaaagtgca	1440
acatgggatc	atgggttggg	gtgctcaggt	gagccctctc	tatagtgtct	ccctggggcca	1500
agctgacacc	agcccctgag	ggtgggggtg	gacgggtggt	gcttaaaaga	ggaaggggac	1560
cagtgtagca	acttgccagg	gacccaccc	ctccctctct	gggcctgtgc	agtgcagcatg	1620
gggattccca	tcaagggggc	tggcacctgt	gctagttacg	tagccgctgn	tcacgcgctc	1680
actcctgacc	acatgcacgt	tccctagatg	cagactgctt	tgaacttta	agctgtacaa	1740
tttggttatg	tttgtgctga	cttaaaatat	attttaatga	ggaaaaaata	atggagaacc	1800
ctgggaagga	cctgggttctt	ttgttctctg	gggaactgta	agccctcgcg	ttctgggaat	1860
cgctctctgc	tgctctttcc	tggaagctaa	gcctgtctcc	accgcccag	gcctgcgccg	1920
gtgctcccg	cgcagttgcg	tttgctttgg	acctgtcggtg	cgggggaggg	ggtgctcggt	1980
ccgagcccg	tcctttctgt	acacctagcg	ctgcccgccc	cgcttgtgtc	tgaggctcgtg	2040
tatgtcaaaa	ataaagccgc	tagaaacgga	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	2100
aaactcgagg	ggggggccgt	acccaattaa	cccnntatga	tctataaagc	gtc	2153

<210> 166

<211> 1251

<212> DNA

<213> Homo sapiens

<400> 166

gcccacgcgt	ccgcccacgc	gtccggcggt	gcggagtatg	gggcgctgat	ggccatggag	60
ggctactggc	gcttccctggc	gctgctgggg	tcggcactgc	tcgtcggtct	cctgtcggtg	120
atcttcgccc	tcgtctgggt	cctccactac	cgagaggggc	ttggctggga	tgaggcgca	180
ctagagttta	actggcaccc	agtgtctcatg	gtcaccggct	tcgtcttcat	ccagggcac	240
gccatcatcg	tctacagact	gccgtggacc	tggaatgca	gcaagctcct	gatgaaatcc	300
atccatgcag	ggttaaatgc	agttgctgcc	attcttgcaa	ttatctctgt	ggtggccgtg	360
tttgagaacc	acaatgttaa	caatatagcc	aatatgtaca	gtctgcacag	ctgggttgga	420
ctgatagctg	tcatatgcta	tttggttacag	cttctttcag	gtttttcagt	ctttctgctt	480
ccatgggctc	cgctttctct	ccgagcattt	ctcatgccca	tacatgttta	ttctggaatt	540
gtcatctttg	gaacagtgat	tgcaacagca	cttatgggat	tgacagagaa	actgattttt	600
tccttgagag	atcctgcata	cagtacattc	ccgccagaag	gtgttttctg	aaatacgctt	660

```

ggccttctga tcctgggtgtt cggggccctc attttttggga tagtcaccag accgcaatgg 720
aaacgtccta aggagccaaa ttctaccatt cttcatccaa atggaggcac tgaacaggga 780
gcaagagggtt ccatgccagc ctactctggc aacaacatgg acaaatcaga ttcagagtta 840
aacagtgaag tagcagcaag gaaaagaaac ttagctctgg atgaggctgg gcagagatct 900
accatgtaaa atgttgtaga gatagagcca tataacgtca cgtttcaaaa ctagctctac 960
agttttgctt ctcctattag ccatatgata attgggctat gtagtatcaa tatttacttt 1020
aatcacaaag gatggtttct tgaaataatt tgtattgatt gaggcctatg aactgacctg 1080
aattggaaag gatgtgatta atataaataa tagcagatat aaattgtggt tatgttacct 1140
ttatcttggt gaggaccaca acattagcac ggtgccttgt gcakaataga tactcaatat 1200
gtgaatatgt gtctactagt agttaattgg ataaactggc agcatccctg a 1251

```

```

<210> 167
<211> 882
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (522)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (752)
<223> n equals a,t,g, or c

```

```

<400> 167
gacsmcttag aactatgggt ccccgggact gcaggaattc ggcacagcgg ctgcggggcgc 60
gaggtgaggg gcgcgaggtt cccagcagga tgccccggct ctgcaggaag ctgaagttag 120
aggcccgagg agggcccagc cgcgccgggg caggatgacc aaggcccggc tgttccggct 180
gtggctgggt ctgggggtcg tgttcatgat cctgctgac atcgtgtact gggacagcgc 240
aggcgccgcg caattctact tgcacacgtc cttctctagg ccgcacacgg ggccgcccgt 300
gcccacgccc gggccggaca gggacaggga gctcacggcc gaytccgatg tgcagaktt 360
tctggacaak tttctcagtg ctggcggtga gcagagtga yttcccagaa aggagacgga 420
gcagccgcct gcgcggggga gcatggagga gagcgtgaga rgctacgact ggtccccgcg 480
cgamgcccgg cgcacccaga ccagggccgg cagcargcgg ancgagggar cgtgctgcgg 540
ggcttctgcg ccaaytccag cctggccttc cccaccaagg agcgcgcat cracgacatc 600
cccaactcgg agctgagcca cctgatcggt gacgaccggc acggggccat ctactgctac 660
gtgcccgaag tggcctgcac caactggaag cgcgtratga tcgtgctgag cggaagctgt 720
gcaccgctg cgcctaccgc gaccggytgc gntcccgcgc gagcacgtgc acaacgccag 780
cgcgcactga cttcaacaat tctggcgccg ctacgggaag tctccccac ctcatgaagt 840
caagctcaag aatacaccaa ttctttctgc gcgacccttc tg 882

```

```

<210> 168
<211> 1208
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (161)
<223> n equals a,t,g, or c

```

```

<400> 168
ttcagaggaa aaataagttc tgtatatggt ttagctaaat agtattatatt ttgtcatatt 60
cccaaattgg aagtccagat acatattagc ctattacaat tctaagttat ttgcagtaaa 120

```

gaatatagat	gaagctggtc	tcattttctat	tttccaagtk	nytggggggcc	atagtgtattt	180
ttttttaacc	tgacaacacc	tcagggaaat	ttatggttta	cagagcacia	cattgttaa	240
tatggcaaag	taaaaaagaa	aacactgaat	ttcaacttgg	aaaatcagaa	tgctgttgct	300
aatagtatta	gtagcaaata	tattaagtat	gtcaaatatg	tcaaatgctg	ttgtaagtga	360
tttacatata	ttagtacatt	taatctcaca	taaagcaaat	taagtaatat	cattagctcc	420
attctacaga	tataaagacc	gagactcagg	traattaagg	tactcaccca	aatttacata	480
gcagaactga	aattcaaact	tatgcaatta	gtctccagtc	taagatttta	actgcactgt	540
tattctgtcg	ctgttaccta	ctaattgggt	wacctgtggc	aagctatttt	accyctctaa	600
gtcaagctgt	ttattgatca	gacagattaa	kgttwtctga	wgtggskgtc	mtaaggratc	660
agtattttaac	agagtcaa	gcagtgcctg	aaatatgcag	ttggtactca	taatamttat	720
ttattaaatg	agaytcaaga	actctagatt	tggttatcyt	cctagctgtg	wamacacagc	780
tatttggttac	ctatcgttat	tagaggaaca	ggcataaagc	tgtgctgagy	tgcttgacgg	840
aaaattccca	ctctagaact	tcaactggat	ctttagaact	aatcattaat	cttggattta	900
cccaggttga	ttgcccattg	caactcatat	cacaggcatt	tcacgtactg	tatgcattcc	960
tcaaaccagg	gcagggggat	caggaaatga	tttaaaccgg	tcaactgagg	agccccagga	1020
ggaccatgca	ctggctgccc	tgacatttta	ccaaatgtgg	ctgtcctgtc	atgatctttt	1080
cttaagaatc	cctacgtaat	tccaaagcta	atattwaaat	atacgtaaat	acctctatct	1140
tcactctgta	tcccttyact	tctaggctct	ggctccatca	accattccat	catccttttg	1200
agtttccc						1208

<210> 169
 <211> 1258
 <212> DNA
 <213> Homo sapiens

<400> 169						
ggcacgagag	aaaagagggt	gagaatgttt	tctagcaggc	agaatgtgca	tacatgtttt	60
catgagtgtc	ctttgggtgc	tgttttctttt	aaatcctctg	tgacacagggc	tctggccttt	120
agtaaaactgt	ttttctgtct	tacgtcatgc	tgactgggtg	ctaggggctg	attacaaaag	180
ggaagagttg	aacagacatc	aggggcccag	gaaaccaaag	gactaggagt	caggagaaca	240
agtcagggat	taggagacag	cggtttggtt	tattgttatc	cagctggagg	actcctaggg	300
gcagcagcag	gaggaatacc	agggccacgg	aggggcccag	agtctcacag	tgaggggcag	360
actctaacag	atgccagctg	aacgctcgct	ggccctggat	gtcatacag	ttggggacca	420
gaaatctggg	ctcagagaa	ccgtccaggg	agatttgaag	ccatgggtta	tcttctagag	480
ttgatactga	taatatattt	taatttttat	tgatgtttta	taccttctga	aacaggaggg	540
taagatcaga	tggaagccc	ctctgttgaa	ggatcctggg	aacttgggtg	tttttttttt	600
ttgggttttt	tttttttgat	cgagctgtgg	acatccttct	taattcgatt	ctgaggattt	660
gtttaactaa	aaagttccca	aacacagaaa	gggcctcccc	acctgctttg	gggagctgtc	720
tgtgtctggg	gtgccaggca	tcccatggga	cccatcactg	ccagtgtctg	tgctctccag	780
aggtcagccc	tgtgtctgcc	ctggctctgt	ctcctctgtg	acagggcaga	gcatttctgg	840
tcagtttctc	catggtgcct	cccacccttt	gtaaagtggg	tggaatgat	ggaattcagt	900
tgtctcacc	tgatagcctg	ggtgttgata	ttcactttac	ccgcactcag	acacaggcga	960
ccttgaagca	gttctcggtg	tgtagagtcc	acgtgacagt	ccccacagcc	tccccagata	1020
gctgtgtgcc	tgtgcgctac	tgctgtgcca	ttttcccaac	ttggcgtttc	actaaatgca	1080
gctgatctct	ctctctgtgc	actcgtgate	catgttgaac	aatacatgta	ggttcttttt	1140
ccacgcaatg	taagaacatg	atatactgta	cgttggaag	catttacctt	atttatatac	1200
ctgaatgttc	ctactacaca	aataaacata	tattaaattc	taaaaaaaaa	aaaaaaaaa	1258

<210> 170
 <211> 1624
 <212> DNA
 <213> Homo sapiens

<400> 170						
ggcacgaggt	cgccgccg	gccgcctgga	attgtgggag	ttgtgtctgc	cactcggctg	60
ccggaggcga	aggctccctga	ctatggctcc	ccagagcctg	ccttcatcta	ggatggctcc	120

tctgggcatg	ctgcttgggc	tgctgatggc	cgccctgcttc	accttctgcc	tcagtcatca	180
gaacctgaag	gagtttggcc	tgaccaaccc	agagaagagc	agcaccaaaag	aaacrgagag	240
aaaagaaacc	aaagccgagg	aggagctgga	tgccgaagtc	ctggaggtgt	tccacccgac	300
gcatgagtgg	caggcccttc	agccagggca	ggctgtccct	gcaggatccc	acgtacggct	360
gaatcttcag	actggggaaa	gagaggcaaa	actccaatat	gaggacaagt	tccgaaataa	420
tttgaagggc	aaaaggctgg	atatcaacac	caacacctac	acatctcagg	atctcaagag	480
tgactgggca	aaattcaagg	agggggcgaga	gatggagagt	tcaaaggaag	acaaggcaag	540
gcaggctgag	gtaaagcggc	tcttccgccc	cattgaggaa	ctgaagaaaag	actttgatga	600
gctgaatgtt	gtcattgaga	ctgacatgca	gatcatggta	cggctgatca	acaagttcaa	660
tagttccagc	tccagtttgg	aagagaagat	tgctgcgctc	tttgatcttg	aatattatgt	720
ccatcagatg	gacaatgcgc	aggacctgct	ttccttttgg	ggtcttcaag	tggtgatcaa	780
tgggctgaac	agcacagagc	ccctcgtgaa	ggagtatgct	gcgtttgtgc	tgggcgctgc	840
cttttccagc	aaccccaagg	tccaggtgga	ggccatcgaa	gggggagccc	tgcagaagct	900
gctggtcatc	ctggccacgg	agcagccgct	cactgcaaag	aagaaggctc	tgtttgcact	960
gtgctccctg	ctgcgccact	tcccctatgc	ccagcggcag	ttcctgaagc	tcggggggct	1020
gcaggctcctg	aggaccctgg	tgaggagaaa	gggcacggag	gtgctcgccg	tgcgctggtg	1080
cacactgctc	tacgacctgg	tcacggagaa	gatgttcgcc	gaggaggagg	ctgagctgac	1140
ccaggagatg	tccccagaga	agctgcagca	gtatcgccag	gtacacctcc	tgccaggcct	1200
gtgggaacag	ggctggtgcy	agatcacggc	ccacctcctg	gcgctgcccg	agcatgatgc	1260
ccgtgagaag	gtgctgcaga	cactgggctg	cctcctgacc	acctgcgggg	accgctaccg	1320
tcaggacccc	cagctcggca	ggacactggc	cagcctgcag	gctgagtacc	aggtgctggc	1380
cagcctggag	ctgcaggatg	gtgaggacga	gggctacttc	caggagctgc	tgggctctgt	1440
caacagcttg	ctgaaggagc	tgagatgagg	ccccacacca	ggactggact	gggatgccgc	1500
tagtgaggct	gaggggtgcc	agcgtgggtg	ggcttctcag	gcaggaggac	atcttggcag	1560
tgctggcttg	gccattaaat	ggaaacctga	aggccaaaaa	aaaaaaaaaa	aaaaaaaaaa	1620
aaaa						1624

<210> 171

<211> 2003

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1961)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1999)

<223> n equals a,t,g, or c

<400> 171

ggcacgagcc	agcttgacag	aggaatcggt	gaggtcctgt	cctgaggctg	ctgtccgggg	60
ccggtggctg	ccctcaaggt	cccttcccta	gctgctgcgg	ttgccattgc	ttcttgccctg	120
ttctggcatc	aggeacctgg	attgagttgc	acagctttgc	tttatccggg	cttgtgtgca	180
gggcccggct	gggctcccca	tctgcacatc	ctgaggacag	aaaaagctgg	gtcttgctgt	240
gccctcccag	gcttagtggt	ccctccctca	aagactgaca	gccatcgttc	tgacgggggc	300
tttctgcatg	tgacgccagc	taagcatagt	aagaagtcca	gcctaggaag	ggaaggattt	360
tggaggtagg	tggcttttgg	gacacactca	cttcttttct	agcctccagg	acactatggc	420
ctgttttaag	agacatctta	tttttctaaa	ggtgaattct	cagatgatag	gtgaacctga	480
gttgacagata	taccaacttc	tgcttggtatt	tcttaaatga	caaagattac	ctagctaaga	540
aacttcctag	ggaactaggg	aacctatgtg	ttccctcagt	gtggtttctt	gaagccagtg	600
atatgggggt	taggatagga	agaactttct	cggtaatgat	aaggagaatc	tcttggtttcc	660
tcccacctgt	gttgtaaaaga	taaactgacg	atatacaggc	acattatgta	aacatacaca	720
cgcaatgaaa	ccgaagcttg	gcggcctggg	cgtggctctt	caaaatgctt	ccaaagccac	780
cttagcctgt	tctatttcagc	ggcaacccca	aagcacctgt	taagactcct	gaccccccaag	840

tgccatgcag	cccccatgcc	caccggggacc	tggtcagcac	agatcctgat	gacttccctt	900
tctagggcag	actgggaggg	tatccaggaa	tcggcccctg	ccccacgggc	gttttcatgc	960
tgtacagtga	cctaaagtgt	gtaagatgtc	ataatggacc	agtccatgtg	atttcagtat	1020
atacaactcc	accagacccc	tccaacccat	ataacacccc	acccctgttc	gcttcctgta	1080
tggtgatatc	atatgtaaca	tttactcctg	tttctgctga	ttgttttttt	aatgttttgg	1140
tttggttttg	acatcagctg	taatcattcc	tgtgctgtgt	tttttattac	ccttggtagg	1200
tattagactt	gcactttttt	aaaaaaaggt	ttctgcatcg	tggaagcatt	tgaccagag	1260
tggaacgcgt	ggcctatgca	ggtggattcc	ttcaggctct	tcctttgggt	ctttgagcat	1320
ctttgctttc	attcgtctcc	cgtctttggg	tctccagttc	aaattattgc	aaagtaaagg	1380
atctttgagt	aggttcggtc	tgaaaggtgt	ggcctttata	tttgatccac	acacgttggg	1440
cttttaaccg	tgctgagcag	aaaacaaaac	aggtaagaa	gagccgggtg	gcagctgaca	1500
gaggaagccg	ctcaaatacc	ttcacaataa	atagtggcaa	tatatatata	gtttaagaag	1560
gctctccatt	tgccatcggt	taattttatat	gttatgttct	aagcacagct	ctcttctcct	1620
attttcatcc	tgcaagcaac	tcaaaatatt	taaaataaag	tttacattgt	agttattttc	1680
aaatctttgc	ttgataagta	ttaagaaata	ttggacttgc	tgccgtaatt	taaagctctg	1740
ttgattttgt	ttccgtttgg	atttttgggg	gaggggagca	ctgtgtttat	gctggaatat	1800
gaagtctgag	accttcgggt	gctgggaaca	cacaagagtt	gttgaaagtt	gacaagcaga	1860
ctgcgcagt	ctctgatgct	ttgtatcatt	cttgagcaat	cgctcgggtc	gtggacaata	1920
aacagtatta	tcaaagagaa	aaaaaaaaaa	aaaaaactcg	nggggggggc	cggtacccaa	1980
ttcgccctat	agtgcgcna	ttc				2003

<210> 172
 <211> 786
 <212> DNA
 <213> Homo sapiens

<400> 172		
ggcacagcgg	cacgagaaga ctttggtggt taagagatta atgtgttagc cagaacaact 60	
cattttctcta	ccmgtgtgta gtccatttat ctttaaagat tttctattgg aataattttg 120	
aaattactttt	cttagttttt ttcattaaaa actaagaaaa tgctttgttt attatgaatt 180	
gctattttctc	ttgattatta ttcttggaga aagtctatca gacgtaattc ttctgatttg 240	
cttctagggt	agaggaaaaat gtgaaagatg acaaatgaaa atttcaaagg ttgtcagtag 300	
tatgacttct	tttatcggtt gtcattatca caaatatata aacataggac ttttaaaaga 360	
tattttgtac	atattggggc ttagtaggat ttgcatgaa tttttttttt cttttatggc 420	
cagagagaaa	gagcaaagaa ataaccaagg gtgatgtact cgtattgaag gtttaccaaa 480	
taaggactgc	ttttattatg aactatagtc tatattctaa gtaaatcaat ttttctatta 540	
tgtgtttttt	gttcctgcag gcaagatctc tgaactttat gcagagggtt cttttaaaaa 600	
aacaaagttg	aattttttta tttcttggaa tttttttttt cattgatttc tcccaagtag 660	
agcagattca	aatctccttt gtaccctatg tcttttttgt tttgctatta gctcagtatt 720	
ccgtttctac	attttccctt cctagaacca gtcataaat gacaaaaaaa aaaaaaaaaa 780	
actcga		786

<210> 173
 <211> 1758
 <212> DNA
 <213> Homo sapiens

<400> 173	
gggacgagcc	ctgcccacct cctgcagcct cctgcgcccc gccgagctgg cggatggagc 60
tgcgacggg	gagcgtgggc agccaggcgg tggcgcgagg gatggatggg gacagccgag 120
atggcgggcg	cggcaaggac gccaccgggt cggaggacta cgagaacctg ccgactagcg 180
cctccgtgtc	caccacatg acagcaggag cgatggccgg gatccctggg cactcggta 240
tgtaccgggt	ggactcgggt aagacacgaa tgcagagttt gagtccagat cccaaagccc 300
agtacacaag	tatctacgga gccctcaaga aaatcatgcg gaccgaagct tctggaggcc 360
cttgcgaggc	gtcaacgtca tgatcatggg tgcagggccr gcccatgcca tgtattttgc 420
ctgctatgaa	aacatgaaaa ggacttttaa tgacgttttc caccaccaag gaaacagcca 480

cctagccaac	ggtattttga	aagcgtttgt	ctggagtttag	aaagttctct	tcttcaacac	540
gtccctcccc	aggggtgttc	tccctgtgac	ccagccgcct	cgacttcggc	ccgcttgctc	600
acgaataaaag	aactcagagt	tgtgtgtgca	atgcacaccc	agacacacgc	acgcacacac	660
acgcgcgcgc	acacacatgc	ttttttctgt	tcccttccgc	tttctgaagc	ctggggagaa	720
atcagtgaca	gaggtgtttt	ggttttattg	ttatgtgggt	tttcttttgt	attttttttg	780
tttgttttgt	ttttaaacat	tcaaaagcaa	ttaatgatca	gacataggag	aaaccctgaa	840
tagaaacaaa	acttttgaat	gctggattca	aaaaaaaaaa	aaagttatct	ggacagcttc	900
tttgagacta	tttaaaaact	ggtacaacag	gtctctacaa	cgccaagatc	taactaagct	960
ttaaaagggtc	aagaagtttt	atggctgaca	aaggactcgc	gcaacgcaga	aggccttttc	1020
caccttaagc	ttccggggat	ctgggaattt	tacccccatt	ctcttctgtt	tgtctgagtc	1080
tcatctctct	gcaagcaagg	gctgaaatca	ttttgttttg	ttgttttgag	ggagagaggc	1140
gggggtggggg	ggtgcaaata	tgccagcagc	tcttacgtaa	ggcatgtttt	attggggagg	1200
gctgagcttt	tattttctcc	tctccagtgg	ggttggtctt	tattgtttct	tgtttgggtt	1260
tggaatggaa	atatggatag	cagcataaaag	tacttttatt	ttgacaaaat	tcattttttt	1320
caacaatgga	gacatagatt	tgaccacaaa	taacttctcc	ccctctcttt	ttactctgct	1380
caaaaagcat	ctctctctcc	attacccaac	cttggtcata	agtgtgcctg	gctggtttgc	1440
agatatttgt	tctgctttgt	aaaaattggc	cattagtcca	tttattgaga	tgatctctaa	1500
agagctatgc	cctgacctac	ccctgattct	atgacattgg	ggcccttctt	ttgctgaaac	1560
tgcccttacgt	aatgggttta	ctccttgaaa	gagatttgac	ggaatccatt	ttatgccaaag	1620
tgctgccctg	cactgtttct	gcaatatgtg	gtgtatgctg	tggtgatctt	gctgggaatg	1680
attataagtg	tgtgtgtggt	gggggagtg	gtattacatg	cattgctgaa	gagtcaaaaa	1740
aaaaaaaaaa	aaactcga					1758

<210> 174

<211> 1369

<212> DNA

<213> Homo sapiens

<400> 174

ggagccttgg	tggaattctg	catcatcatc	tccttttttt	tttttttttt	tttttttttt	60
tttttctct	gggattatat	cagaatacaa	ctgaatgagc	gattgggttg	atccccgata	120
actgtgtcca	tggtttatag	tagaatcttg	gccacatggg	agactgctat	tagctactgg	180
aggtgctgct	ggttaaagcag	gtgtaaaaga	aggcctcact	ggggactgct	ggaagctggg	240
cccagaaaga	tttccatgtc	cctgcttcac	agaagaaaaa	tttgggcttc	caacagggat	300
tgatggtgaa	tcaggaacaa	atgaaggagg	gcctacctgc	cttcgctcat	tagtctgcat	360
gaaagtttgg	gtggaggggtg	aattaattga	tccttgttgt	atattctgct	gctgtaaaac	420
ctgccccatt	tgctgttggt	gttgtggaga	ctgctgaagg	ggctcctagag	gttgcataaa	480
atcacaagggt	aagtcggaac	tgtagaaggg	aatctgggac	acagatgtcc	tactactact	540
tatctcagag	cccaccatac	catgctgctc	catttccatc	ctctgctgca	aagctctttg	600
tctatctacc	tcctgcatga	gttggatccg	ttgtctctct	tgctgttctc	gtaaacgttc	660
cttacgttcc	cgttcttgaa	aaatttccact	aaagggattg	ttgtcatcaa	attctaccgg	720
aggtgggtgks	tcactctgtg	gattttgcatt	tgagactgtc	cctgggggctg	gtgtacaagt	780
ttttatttgt	aactgggcaa	ttgggggctg	aattctagga	ggattgaggg	gcaggtgggc	840
agragcactg	ttgggttgcc	atccaggtaa	actgggcatt	ctaacagggc	tagtatggcc	900
agaaataact	gttgtgtgct	gctgggtgctg	aagctgctgt	ggcaccatgg	gaaaggtggg	960
ttggctcatg	tggggtggag	tggcacctgg	aattaggggt	ggctggggct	ggacactggg	1020
catcatggta	ggtggggcca	ttgcacattg	ctgctgctgt	ttgatccgat	aatcttcaat	1080
caattcagca	tgttctttct	gttgttttaag	aatctgttct	agctgtttct	gaaccatgct	1140
ttgctgttca	gtaacatgct	tgagttgttc	tgcatcttcc	tctggaaatt	cacgcccagc	1200
tttcttggca	gtacgttggt	tagctgaaag	ggccttctta	gattttctgt	gagcaccaat	1260
ttgttcttca	agatacttct	gctgcatttg	aagcagctgt	tgggtctcct	ggrgccactc	1320
ttcatactgc	ttacgctgtg	aatcattgac	aaagccggga	ccaaaattt		1369

<210> 175

<211> 2379

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1881)

<223> n equals a,t,g, or c

<400> 175

ggcagagcta	gtgtggactc	catccccctg	gagtgggatac	acgnctatga	cctcagtcgg	60
gacctggagt	ctgcaatgtc	cagagctctg	ccctctgagg	atgaagaagg	tcaggatgac	120
aaagattttct	acctccgggg	agctgttgsc	ttatcagggg	accacagtgc	cctagagtca	180
cagatccgac	aactgggcaa	agcctggatg	atagccgctt	tcagatacag	caaaccgaaa	240
atatcattcg	cagcaaaaact	cccacggggc	cggagctaga	caccagctac	aaaggctaca	300
tgaaaactgct	gggcgaatgc	agtagcagta	tagactcctg	gaagagactg	gagcacaaaac	360
tgaaggagga	agaggagagc	cttcctggct	ttgttaacct	gcatagtacc	gaaacccaaa	420
cggctgtgtg	gattgaccga	tgggagcttc	tccaggccca	ggcattgagc	aaggagttga	480
ggatgaagca	gaacctccag	aagtggcagc	agtttaactc	agacttgaaac	agcatctggg	540
cctggctggg	ggacacggag	gaggagtgg	aacagctcca	gcgtctggaa	ctcagcactg	600
acatccagac	catcgagctc	cagatcaaaa	agctcaagga	gctccagaaa	gctgtggacc	660
accgcaaagc	catcatcctc	tccatcaatc	tctgcagccc	tgagttcacc	caggctgaca	720
gcaaggagag	ccgggacctg	caggatcgct	tgtsgcagat	gaatgggcgc	tgggaccgag	780
tgtgctctct	gctggaggag	tggcggggcc	tgctgcagga	tgccctgatg	cagtgccagg	840
gtttccatga	aatgagccat	ggtttgcttc	ttatgctgga	gaacattgac	agaaggaaaa	900
atgaaattgt	ccctattgat	tctaaccttg	atgcagagat	acttcaggac	catcacaaaac	960
agcttatgca	aataaagcat	gagctgttgg	aatcccaact	cagagtagcc	tctttgcaag	1020
acatgtcttg	ccaactactg	gtgaatgctg	aaggaacaga	ctgtttagaa	gccaaagaaa	1080
aagtccatgt	tattggaaat	cggctcaaac	ttctcttgaa	ggaggtcagt	cgatcatatca	1140
aggaactgga	gaagttatta	gacgtgtcaa	gtagtcaaga	ggatttgtct	tcctgggtctt	1200
ctgctgatga	actggacacc	tcagggtctg	tgagtcccay	atcaggaagg	agcaccccaa	1260
acagacagaa	aacgccacga	ggcaagtgtg	gtctctcaca	gcctggaccc	tctgtcagca	1320
gtccacatag	caggtccaca	aaagggtggc	ccgattcctc	cctttctgag	ccarggccag	1380
gtcgggtccg	ccgcggcttc	ctgttcagag	tcctccgagc	agctcttccc	cttcagcttc	1440
tcctgtctct	cctcatcggg	cttgctgcc	ttgtaccaat	gtcagaggaa	gactacagct	1500
gtgccctctc	caacaacttt	gcccgggtcat	tccaccccat	gctcagatac	acgaatggcc	1560
ctcctccact	ctgaactaag	cagatgccat	ctgcagaagt	gctggtagca	taaggaggat	1620
cgggtcataa	gcaatcccaa	actaccaaca	agaggacctt	gatcttggcg	aaagccmtcg	1680
gtgtggcagc	tttagcctcc	tccagatcac	atgtgtgcaa	attatggctt	cagaggtgga	1740
agataaacag	tgacggggga	acaaacagac	aacaagaagg	tttggaagaa	atctgggttg	1800
agactctgaa	ccttagcact	aaggagattg	agtaaggacc	tccaaagttc	cccggaactca	1860
tgaattcttg	gcccttggcc	nattctgtgc	acagccaagg	acttcagtag	accatctggg	1920
cagcttttcc	atggtgctgc	tccaaccatc	agataaatga	ccctcccaag	caccatgtca	1980
gtgtcgtaca	atctaccaac	caaccagtgc	tgaagagatt	ttagaacctt	gtaacataca	2040
atttttaaga	gcttatatgg	cagcttcctt	tttaccttgt	tttcccttgg	ggcatgatgt	2100
tttaaccttt	gctttagaag	cacaagctgt	aaatctaaaa	ggcacttttt	tttagaggta	2160
taaagaaaaa	ctagatgtaa	taaataagat	catggaaggc	tttatgtgaa	aaaagttgaa	2220
tgttatagta	aaaaaaaaag	atatttatgt	atgtacagtt	tgctaaagcc	aagttttgtt	2280
tgtattgatt	tctttgcatt	tattatagat	attataaaat	aaaaaaaaaa	aaaaaaaaaac	2340
tcgagggggg	gcccgttacc	caattcgccc	tatagttag			2379

<210> 176

<211> 1348

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (407)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1331)

<223> n equals a,t,g, or c

<400> 176

gcgccttcac	gatgccggcg	gtcagtggtc	caggtccctt	attctgcctt	ctcctcctgc	60
tcctggaccc	ccacagccct	gagacggggt	gtcctcctct	acgcaggttt	gagtacaagc	120
tcagcttcaa	aggcccaagg	ctggcattgc	ctggggctgg	aatacccttc	tggagccatc	180
atggaggtga	ggggcagggg	tggggaccgc	tatgcccagg	gtccctcaaa	gtgctggagg	240
ggctgtract	tgggtggggg	tgggtctgtc	acagccatcc	tctgtccagg	gtggggcaag	300
gcctgggaca	gtgccaggca	ccccaggacc	ccttcaggc	ttgtctcctg	ctccaccgcc	360
tcaacacccc	ccaccctgc	ccaagctgtt	tctcctctgc	ctctctnntt	ccctgcccc	420
ggacttctct	cttctcctct	gcctctcctt	ggaccctgc	ccttctctta	cctctgacct	480
gtgaacacac	agacacatgc	tcacacacta	agtcccargc	acacmsaaag	gcaatgtgga	540
ccagcacaaa	cctccactct	cccggctcca	tcccarggg	cctgtggctg	gccatgaaaa	600
ctgggggcta	cctggaggga	agcatcctca	tcccagggtga	gtgggcacca	gcccttccct	660
gtatgtgtgt	tgtgggtgga	agcaggcatg	agagcatctt	agcccatagg	tttgtattca	720
gggacttcca	aaccagacc	tacaaagagt	gtgtcttcta	ccagatcttg	ttcaaaaaag	780
ggttttgtat	gatggaacta	cacgatagag	ggagtggagca	agaacaatga	ggattagagt	840
ggagcgtgaa	atagtctagg	agcatggctt	ccaaaacata	tgctgtgagg	tctgtccacc	900
tgagagttgg	gccatggatt	taattctgag	cctcttagca	ggcaaagcaa	agacagaaa	960
cagatcggct	gtggatttct	gtctataaaa	tgtgagttct	tggccgggtg	cggtggctca	1020
cgcctgtaat	cccggcgctt	tgggaggcca	gggcggatgg	gtcgcgaggt	caggaggttg	1080
gaaaccatcc	tggccggaat	ggtgaagccc	tgactctact	agaagtgcaa	agattggctg	1140
ggtgtggtgg	cgtgcgcctg	tgggtcccagc	ttctcgggag	gctgaggcgg	gagagttgct	1200
tgggcctggg	aggccgaggt	tgcggtgagc	tgagatcctg	ccattgcact	tcagcctggg	1260
cacagagcca	gactctggct	caaaaaaaaa	aaaaaaaaaa	actcgagggg	ggcccgtacc	1320
caattcgccg	natatgatcg	taaacaat				1348

<210> 177

<211> 1502

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (470)

<223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1024)
 <223> n equals a,t,g, or c

<400> 177

ctcaaaataa	ataaataaat	aaaaatttgt	attccattga	tttgggtaga	caccaggaat	60
gtgcatttct	aacaagcttt	ccaggcgatc	ctatagtaag	tcactctgtg	actactttta	120
gaaactcttc	tatagagaat	ggagttggat	taataatagg	tgatttttta	caactggactg	180
attcacaaga	acctaaacag	tagtccatga	agctgctcat	ctgtggtaac	tatttggccc	240
cgtctcactc	tgaaagcagc	aggagatgtt	gtttactttg	tttctatccc	ctttgtctgg	300
agattaatth	tggaatgaaa	gtttttctct	ctatgccatt	cctggttctt	ttccaaagcc	360
tcatacaaga	ggattaggtc	acaatgcatt	cattaccttt	taaaagaatg	cgatattgat	420
accgatgctt	actttttttt	tttttnacta	cttgttttat	tccttccagn	aaagtatagc	480
ccgcctttct	atagcatagt	tctcttttag	tggaatgatt	cctataagat	ttctcattat	540
taaatcatgc	atthtttcaag	atggaatcaa	tmtttgattt	aatctaagct	gatatttctca	600
tttgtttaga	gaacaacctc	catgctagag	agagaggagg	aatataccc	acgaccacac	660
agccagttag	tatccagttg	gtgctggact	ccagccaggt	gtcctgcctc	atggttagtta	720
aatgatatat	agaaaaggta	aattttttaa	gaaatattta	ttaatatatt	cctataaaac	780
atthttaaag	taaccacata	aaaatgggtt	atthttccat	tcctaaagtaa	atgctaagca	840
tgthttattaa	tgaagcagta	cttctgatta	gtatatgaca	ttctgaagtt	aattaaactc	900
attgcactaa	atgtgtcttc	cttgggtatag	tgagggtatt	gaggattgga	atatagagta	960
gagtgtctgc	ttaagcctgg	gagcccatct	ttatagctat	ttgatgtaag	aaaagagaca	1020
tggnccattt	ctaaactata	taagggtgagt	gtgtctattc	ccagcagata	taaaggaaaa	1080
aggaaacttt	tttgattccc	accttcccag	cctcacctag	ccatcttcca	gcctcaaata	1140
tagagatgtt	agtgcagggt	cctgggctct	aggtgatcat	ttcataagtc	ctttacagat	1200
aaagaaaaag	tagtgtttgt	atgtttgttt	ttaagtaacc	ccaaaacaaa	tttatattgt	1260
attcagcaaa	attggaattc	aggtgtttta	ttttagaaca	tgaagtgcct	gctgttttta	1320
gcattgactt	gtataaaaaag	aattgcatgt	ctccagtaag	cttatgggtt	ttctcatttt	1380
taggtatatg	gctttttaatc	atgtaaaagt	aaacattagt	tttcttgcct	tttattacag	1440
gttctttgtt	gcaataaaga	tgctgtgtaa	attaattgaa	aaaaaaaaaa	aaaaaaactc	1500
ga						1502

<210> 178
 <211> 1637
 <212> DNA
 <213> Homo sapiens

<400> 178

atthttctagc	ccacaaggac	tgaagttcag	atccaaaagt	tcacttgcta	attatcttca	60
caaaaatgga	gagacttctc	ttaagccaga	agattttgat	tttactgtac	tttctaaaaag	120
gggtatcaag	tcaagatata	aagactgcag	catggcagcc	ctgacatccc	atctacaaaa	180
ccaaagtaac	aattcaaact	ggaacctcag	gacccgaagc	aagtgcaaaa	aggatgtgtt	240
tatgccgcca	agtagtagtt	cagagttgca	ggagagcaga	ggactctcta	actttacttc	300
cactcatttt	cttttgaaag	aagatgaggg	tggtgatgat	gttaacttca	gaaagggttag	360
aaagcccaaa	ggaaagggtga	ctatthttgaa	aggaatccca	attaagaaaa	ctaaaaaagg	420
atgttaggaag	agctgttcag	gttttgttcm	aagtgatagc	aaaagagaat	ctgtgtgtaa	480
taaagcagat	gctgaaagtg	aacctgttgc	acaaaaaagt	cagcttgata	gaactgtctg	540
cattttctgat	gctggagcat	gtggtgagac	cctcagtggt	accagtgaag	aaaacagcct	600
tgtaaaaaaa	aaagaaagat	cattgagttc	aggatcaaat	ttttgttctg	aacaaaaaac	660
ttctggcatc	ataaacaaaat	tttgttcagc	caaagactca	gaacacaacg	agaagtatga	720
ggataccttt	ttagaatctg	aagaaatcgg	aacaaaagta	gaagtgtgtg	aaaggaaaga	780
acatttgcac	actgacattt	taaaacgtgg	ctctgaaatg	gacaacaact	gctcaccaac	840
caggaaagac	ttcactgaag	ataccatccc	acggaacaca	gatagaaaga	aggaaaacaa	900
gcctgtatth	ttccagcaaa	tataacaaa	aagctcttag	ccccccacga	cgtaaaagcct	960
ttaagaaatg	gacacctcct	cggtcacctt	ttaatctcgt	tcaagaaaca	ctthttctatg	1020
atccatggaa	gcttctcatc	gctactatat	ttctcaatcg	gacctcaggc	aaaatggcaa	1080

tacctgtgct	ttggaagttt	ctggagaagt	atccttcagc	tgaggtagca	agaaccgcag	1140
actggagaga	tgtgtcagaa	cttcttaaac	ctcttgggtc	ctacgatctt	cgggcacaaaa	1200
ccattgtcaa	gttctcagat	gaatacctga	caaagcagtg	gaagtatcca	attgagcttc	1260
atgggattgg	tgcaccctga	agaccacaaa	ttaaataaat	atcatgactg	gctttgggaa	1320
aatcatgaaa	aattaagtct	atcttaaact	ctgcagcttt	caagctcatc	tgttatgcat	1380
agctttgcac	ttcaaaaaag	cttaattaag	tacaaccaac	cacctttcca	gccatagaga	1440
ttttaattag	cccaactaga	agcctagtgt	gtgtgctttc	ttaatgtgtg	tgccaatggg	1500
ggatctttgc	tactgaatgt	gtttgaacat	gttttgagat	ttttttaaaa	taaattatta	1560
tttgacaaca	atccaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1620
aaaaaaaaaa	aaaaaa					1637

<210> 179

<211> 2911

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (622)

<223> n equals a,t,g, or c

<400> 179

ggtgggttttt	gttctgcaat	aggcggctta	gagggagggg	ctttttcgcc	tataacctact	60
gtagcttctc	cacgtatgga	ccctaaaggc	tactgtctgt	actacggggc	tagacagtta	120
ctgtctcagc	tctaggatgt	gcgttcttcc	actagaagct	cttctgaggg	aggtaattaa	180
aaaacagtg	aatggaaaaa	cagtgtctgta	gtcatcctgt	aatatgctcc	ttgtcaacaa	240
tgtatacatt	cctgctaggt	gccatattca	ttgcttttaag	ctcaagtgcg	atcttactag	300
tgaagtattc	tgccaatgaa	gaaaacaagt	atgattatct	tccaactact	gtgaatgtgt	360
gctcagaact	ggtgaagcta	gttttctgtg	tgcttctgtc	attctgtgtt	ataaagaaag	420
atcatcaaag	tagaaatttg	aaatatgctt	cctggaagga	attctctgat	ttcatgaagt	480
ggtccattcc	tgcttttctt	tatttctctg	ataacttgat	tgtcttctat	gtcctgtcct	540
atcttcaacc	agccatggct	gttatcttct	caaatttttag	cattataaca	acagctcttc	600
tattcaggat	agtgtctgaag	angcgtctaa	actggatcca	gtgggcttcc	ctcctgactt	660
tatttttgtc	tattgtggcc	ttgactgccc	ggactaaaac	tttacagcac	aacttggcag	720
gacgtggatt	tcatcacgat	gcctttttca	gcccttccaa	ttcctgcctt	cttttcagaa	780
atgagtgtcc	cagaaaagac	aattgtacag	caaaggaatg	gacttttctt	gaagctaaat	840
ggaacaccac	agccagagtt	ttcagtcaca	tccgtcttgg	catggggccat	gttcttatta	900
tagtccagtg	ttttatttct	tcaatggcta	atatctataa	tgaaaagata	ctgaaggaag	960
ggaaccaagt	cactgaargc	atcttcatac	agaacagcaa	actctatttc	tttggcattc	1020
tgtttaaatg	gctgactctg	ggccttcaga	ggagtaaccg	tgatcagatt	aagaactgtg	1080
gattttttta	tggccacagt	gcattttcag	tagcccttat	ttttgtaact	gcattccagg	1140
gcctttcagt	ggctttcatt	ctgaagtctc	tgataaacat	gttccatgtc	ttgatggccc	1200
aggttaccac	tgtcattatc	acaacagtgt	ctgtcctggg	ctttgacttc	aggccctccc	1260
tggaaatttt	cttgggaagcc	ccatcagtc	ttctctctat	atttatttat	aatgccagca	1320
agcctcaagt	tccggaatac	gcacctaggc	aagaaaggat	ccgagatcta	agtggcaatc	1380
tttgggagcg	ttccagtggg	gatggagaag	aactagaaaag	acttacccaa	cccaagagtg	1440
atgagtcaga	tgaagatact	ttctaactgg	taccacacata	gtttgcagct	ctcttgaacc	1500
ttattttcac	attttcagtg	tttgtaatat	ttatcttttc	actttgataa	accagaaatg	1560
ttttctaaatc	ctaataattct	ttgcatatat	ctagctactc	cctaaatggg	tccatccaag	1620
gcttagagta	cccaaaggct	aagaaattct	aaagaactga	tacaggagta	acaatatgaa	1680
gaattcatta	atatctcagt	acttgataaa	tcagaaagtt	atatgtgcag	attatttttc	1740
ttggccttca	agcttccaaa	aaacttgtaa	taatcatgtt	agctatagct	tgtatataca	1800
catagagatc	aatttgccaa	atattcacaa	tcatgtagtt	ctagttttaca	tgccaaagtc	1860
ttcccttttt	aacattataa	aagctaggtt	gtctcttgaa	ttttgaggcc	ctagagatag	1920
tcatttttgc	agtaaagagc	aacgggaccc	tttctaaaaa	cgttggttga	aggacctaaa	1980
tacctggcca	taccatagat	ttgggatgat	gtagtctgtg	ctaaatatatt	tgctgaagaa	2040
gcagtttctc	agacacaaca	tctcagaatt	ttaattttta	gaaattcatg	ggaaatttga	2100

J0004350.120701

tttttgtaat	aatcttttga	tgtttttaa	attgggtccc	tagtcaccat	agttaccact	2160
tgtatttttaa	gtcattttaa	caagccacgg	tggggctttt	ttctcctcag	tttgaggaga	2220
aaaatcttga	tgtcattact	cctgaattat	tacatttttg	agaataagag	ggcattttat	2280
tttattagtt	actaattcaa	gctgtgacta	ttgtatatct	ttccaagagt	tgaaatgctg	2340
gcttcagaat	cataccagat	tgtcagtga	gctgatgcct	aggaactttt	aaagggatcc	2400
tttcaaaagg	atcacttagc	aaacacatgt	tgacttttaa	ctgatgtatg	aatattaata	2460
ctctaaaaat	agaaagacca	gtaatatata	agtcacttta	cagtgtctact	tcacacttaa	2520
aagtgcattg	tatttttcat	ggtattttgc	atgcagccag	ttaactctcg	tagatagaga	2580
agtcagggtg	tagatgatat	taaaaattag	caaacaaaag	tgacttgctc	aggggtcatgc	2640
agctgggtga	tgatagaaga	gtgggcttta	actggcaggc	ctgtatgttt	acagactacc	2700
atactgtaaa	tatgagcttt	atgggtgcat	tctcagaaac	ttatacattt	ctgctctcct	2760
ttctcctaag	tttcatgcag	atgaatataa	ggtaatatat	tattatataa	ttcatttgtg	2820
atatccacaa	taatatgact	ggcaagaatt	ggtggaaatt	tgtaattaaa	ataattatta	2880
aacctaataa	aaaaaaaaa	aaaaactcga	g			2911

<210> 180
 <211> 519
 <212> DNA
 <213> Homo sapiens

<400> 180						
ggcacgagcc	ccaggccagc	cagggccagg	cctacttttg	ccacccttaa	attagaatgt	60
ggggtcaggg	gtcacagaaa	agccatttct	ctgacctagt	gtttggcgct	cgggaaactct	120
gtgcccacc	ttcagaccct	ggcagtcctc	actgaggcca	ttggcccaga	gcccgccatc	180
ccccgaracc	cccgggagcc	gcctgttgcc	acgtccacac	ctgccacacc	ctctgccggg	240
ccccagcccc	tcccaaccgg	gaccgtgctg	gtccctgggg	gtcctgcccc	accttgccct	300
ggggaggcat	gggcctcct	cctcccaccc	tgccggccgt	cactcacctc	ttgcttctgg	360
tccccagggc	ctagcccttg	gaaggagaca	ggagtctagg	gaggctgaag	cccactcccc	420
gggaggcccg	tgctcctcca	gccccaggga	cagcaaggaa	aagagaagag	agcagagcat	480
ttcatggctc	taataaaaaa	aaaaaaaaaa	aaaactcga			519

<210> 181
 <211> 968
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (45)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (135)
 <223> n equals a,t,g, or c

<400> 181						
tccccctggg	gcccgaaaaa	gcggggttgg	cctgnccatt	ggttntccat	gcccgccgcc	60
catgcccag	tactagcctg	cagtcaccaat	gtagcccctc	cctcytccma	gagcccytcm	120
aaccgccccg	stcanttgtg	atttcaggag	gatttgatga	agatgttaaa	gcgaaagtgg	180
agaaccttct	cgggatttcc	agcctggaaa	aaacggaccc	tgttaggcaa	gcaccctgca	240

gccctccctg	tcccccttctt	ccccctccct	tcycccgccc	gtggagacag	ctgttytcag	300
cagggctctc	cgcagggagg	gggcccggctc	cttccctggc	agcaacatcc	ttgcccttgt	360
cacacaagtc	agcctccatc	tgcgcagctc	tgtggatgcg	ctgctggagg	gcaacaggta	420
tgtcactggc	tggttcagcc	cctaccaccg	ccagcggaag	ctcatccacc	cggtcatggt	480
tcagcacatc	cagcccgcag	cgctcagcct	cctggcacag	tggagcacc	tcgtgcagga	540
gctggaggct	gccctgcagc	tggcttttcta	cccggatgcc	gtggaggagt	ggctggagga	600
aaacgtgcac	cccagcctgc	agcggctgca	arctctgctg	caggacctca	gcgagggtgc	660
tgcccccccg	ctgccaccca	ccagccctgg	cagggacgtt	gctcaggacc	cctgagggga	720
gagctcatgc	cagggggctc	ctgctggagg	ctgggggggc	tctgcwytky	cwwwtgccct	780
gggcaatacg	gcccacgtgg	gcgtcgtgcc	ctctggccca	gcagtgtctt	gcccacactc	840
agttcctgag	ggccctgggc	agccctggg	ggagagacta	gaaaacacag	aaggaagcag	900
cacagggaga	cccgctttgt	gatctgcatg	tgtgacactg	attcttttga	aataaagagt	960
ggaagctg						968

<210> 182
 <211> 1128
 <212> DNA
 <213> Homo sapiens

<400> 182						
tgtaaaagtt	atcagtaatc	ctaattcttt	tcttgggttt	tccttttgtc	acttattaat	60
cagtttttga	aaggacgaat	gaatttagag	atgtactctg	gagcagtatc	atgttaaacc	120
aggggtatat	tagaaaaatc	atcctcataa	tcattctggg	aagtttttcc	tccccaaaaa	180
aagccatcct	gatgggtttt	caaaaccaga	aaaaagctct	taatgaggaa	cagaccactg	240
gagtacccat	gagcatctca	ggaaaactga	gaccctcgag	aagccttgat	ttcgtgcaac	300
ccccaaggtt	tcagagccag	cagcccagtg	ctgtggttga	cagacgtggt	tttktggrra	360
aagcagccag	aggccaggaa	ttttcagagt	cgtagatcac	grtytcccac	ccaagattag	420
agcamagatt	agccatactg	agatttggtg	aaatcattct	gtctaagcaa	tggagggtgtg	480
tgcamacgtg	cagtgcctgt	tcacagggga	tgcaggcaga	tcsygggttt	aggatggggr	540
aggccaccgc	acccccyttc	aytgctctgc	acctgtctcc	tcacgtggac	actgtccaca	600
actgtggctc	tcacaggaca	gttgcccaag	gagctcatat	cttattggag	ataggggttc	660
gtacagggtga	cattcatgag	cagtgtgagc	cgggtgacat	gggggtgtca	acccagcatc	720
tgtccaggag	ctcctcctgc	agcggctctg	gcagggtggc	tgaggctcct	ttttgagaga	780
gaactgtttg	gccttctctg	ctcctctcct	ctgatctggt	ctttcttga	acaccacca	840
agaacgtcac	ctcctccatc	agattgtgag	ctcctggagg	gcaggagctg	tgtccttcta	900
ttcatcttcc	tatccccaga	accttgca	gacccctggaa	tgtggttagt	gctcagtaaa	960
tgtgtgttga	ataaatgaat	gaatgaatga	acaaatgaat	gaatttgctt	acttcaaggc	1020
aaaagaacca	tgaaactgta	ttttgagttt	ctatgttata	gcagtcagca	aatcctatta	1080
aatactttgt	gtttccaagc	aaaaaaaaa	aaaaaaaaa	aaactcga		1128

<210> 183
 <211> 2276
 <212> DNA
 <213> Homo sapiens

<400> 183						
ccgcggcgctc	tgacctcatg	gcgtagagcc	tagcaacagc	gcaggctccc	agccgagtcc	60
gttatggccg	ctgccgtccc	gaagaggatg	agggggccag	cacaagcgaa	actgctgccc	120
gggtcggcca	tccaagccct	tgtgggtttg	gcgcggccgc	tggctcttggc	gctcctgctt	180
gtgtccgcgc	ctctatccag	tgttgatatca	cggactgatt	caccgagccc	aaccgtactc	240
aactcacata	tttctacccc	aaatgtgaat	gctttaacac	atgaaaacca	aaccaaactt	300
tctatttccc	aaatcagcac	caccctccct	cccacgacga	gtaccaagaa	aagtggagga	360
gcatctgtgg	tccctcatcc	ctgcctact	cctctgtctc	aagaggaagc	tgataacaat	420
gaagatccta	gtatagagga	ggaggatctt	ctcatgctga	acagttctcc	atccacagcc	480
aaagacactc	tagacaatgg	cgattatgga	gaaccagact	atgactggac	cacgggcccc	540
agggacgacg	acgagtctga	tgacaccttg	gaagaaaaca	gggtttacat	ggaaattgaa	600

cagtcagtga	aatcttttaa	gatgccatcc	tcaaatatag	aagaggaaga	cagccatttc	660
ttttttcatc	ttattatttt	tgctttttgc	attgctgttg	tttacattac	atatcacaac	720
aaaaggaaga	tttttcttct	ggttcaaagc	aggaaatggc	gtgatggcct	ttgttccaaa	780
acagtggaat	accatcgccct	agatcagaat	gttaatgagg	caatgccttc	tttgaagatt	840
accaatgatt	atatttttta	aagcactgtg	atltgaatlt	gcttatgtaa	ttttatttgc	900
ttgacttttt	atatgatatt	gtgcaaatgt	ttgccatagg	caattggtac	ttaaatgaga	960
ggtgagtctc	tcttttgcct	tggtgctttg	gaaattaaat	gtcacaaacg	agtatataat	1020
tttttatctg	tactttttaga	gctgagttta	atcagggtgc	caaaatgtga	gttaaactat	1080
accttatatt	tacactgtta	gtttttattg	tttttagattt	attatgcttc	ttctggaagt	1140
attagttagt	ctacttttaa	aagatcccaa	acttgtaact	aaattctgac	atatctgtta	1200
ctgctgactc	acattcattc	tccgccattc	aaatactatt	ttttatccac	atlttttttt	1260
gttcccaaac	tghtaatgtac	aaggatatgt	gtgataatgc	tttggatttg	agtaatatlt	1320
ttttttcttc	caagaaaaact	gctttggata	tttttagata	atltaaacat	aatttaggat	1380
aatgatattg	ctcaatctga	ccacaatttt	aggtaaaaca	ttaaatgtgt	cagaaatctt	1440
ggcaacagag	actctgcagc	ttgcagtggg	catagataaa	atgttacaga	gatactatlt	1500
ttttggttgg	aattactata	ttaaatttag	aagcagaaac	tggtaaaatg	ttaaatacat	1560
gtacaattgc	tttttagttag	caattgattg	tagcatgggt	tcctccaagg	tttcaagcaa	1620
tgggcagagt	ttaaaattat	atcagattcg	tttacttcgt	ttattatltt	acagtaaatt	1680
tgaataaaac	ttaggggtca	ttatcactta	aataatactg	tacctaggtc	tttcaaatta	1740
aaattatacc	tgaatgaagt	tgtttgtata	cataaaggat	atlttgttac	aattacctlt	1800
tttcccccac	acttgttttc	tttgtttttg	ttttttatgg	caactggaaa	gtatlttacta	1860
tgggattcat	ttatgtctgt	ctttctatca	taaagaattg	atcaatatgt	aaatatgtga	1920
tttgaaccat	ggttgactta	caagtgtcac	tacagctltt	tagaaaacat	agccctaata	1980
tatgttaagc	aggaccggtg	tgagccagtg	ggcttgcgct	ttatgtagag	ctggaagaag	2040
gccgtccatc	ctgtctcttg	ggcggacagt	gtactttcct	aataggggag	ggaagcacia	2100
tggaaatacc	cctgaaccgt	tttattgcag	taatlttttt	catatctgaa	actattatlt	2160
aatatltttg	ataagatttt	aaaaaataaa	tggcaaagat	ataaatctaa	aaaaaaaaaa	2220
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaa	2276

<210> 184

<211> 3374

<212> DNA

<213> Homo sapiens

<400> 184

ggcgggcagt	tccaagctac	gccactcggg	ctggggcggt	gggagcggga	gtgcagagcg	60
tggtcgtggc	ggcggcggtg	agaagagcga	ggcggaggag	ggggtgccat	ggccgggcag	120
cagttccagt	acgatgacag	tgggaacacc	ttcttctact	tcctcacctc	cttcgtgggg	180
ctcatcgtga	tcccggcgac	atactacctc	tggccccgag	atcagaatgc	cgagcaaatt	240
cgattaaaga	atatcagaaa	agtatatgga	agggtgatgt	ggatctgttt	acggttatta	300
aaaccccagc	caaatattat	tcctacagta	aagaaaatag	ttctgcttgc	aggatgggca	360
ttgttcttat	tccttgcata	taaagtlttc	aaaacagacc	gagaatacca	agaatacaat	420
ccttatgaag	tattaaaatt	ggatcctgga	gccacagtag	cagaaaattaa	aaaacaatat	480
cgtttgcgtg	cacttaaata	tcattccagat	aaaggagggt	atgagggttat	gttcatgagg	540
atagcaaaa	cttatgctgc	tttaacggat	gaagagtccc	ggaaaaattg	ggaagaattt	600
ggaaatccag	atgggcctca	agccacaagc	tttggaaatt	ccctgccagc	ttggatagtt	660
gaccagaaaa	attcaattct	ggttttactt	gtatatggat	tggcattttat	ggttatcctt	720
ccagttgttg	tgggtctctg	gtggtatcgc	tcaatacgtc	atagtggaga	ccagatttcta	780
atacgcaaaa	cacagatttt	tacatacttt	gtttataaaa	cccgaatat	ggatatgaaa	840
cgtcttatca	tggttttggc	tggagcttct	gaatttgatc	ctcagtataa	taaagatgcc	900
acaagcagac	caacggataa	tattcttaata	ccacagctaa	tcagagaaat	tggcagcatt	960
aatttaaaaga	agaatgagcc	tccactttacc	tgccccatata	gcctgaaggc	cagagttcct	1020
ttactgtctc	atcttgcctag	aatgaaaatt	cctgagaccc	ttgaagaaga	tcagcaattc	1080
atgctaaaaa	agtgtcctgc	cctacttcaa	gaaatggtta	atgtaatctg	ccaactaata	1140
gtaatggccc	ggaaccgtga	agaaagggtg	tttcgtgctc	caactttggc	atccctagaa	1200
aactgcatga	agcttttctca	gatggccgtt	cagggacttc	agcaatttaa	gtctccctt	1260
ctgcagctcc	ctcatattga	agaggacaat	cttagacggg	tttctaata	taagaagtat	1320

aaaattaaaa	ctatccagga	tttgggtgagt	ttaaaagaat	cagatcgtca	cactctactg	1380
cacttccttg	aagatgaaaa	atatgaagag	gttatggctg	tccttgggag	ttttccatat	1440
gtgaccatgg	atataaaatc	acagggtgta	gatgatgaag	atagcaacaa	catcacagta	1500
ggatccttag	ttacagtgtt	ggttaagttg	acaaggcaaa	caatggctga	agtatttgaa	1560
aaggagcagt	ccatctgtgc	tgcagaggaa	cagccagcag	aagatgggca	gggtgaaact	1620
aacaagaaca	ggacaaaagg	aggatggcaa	cagaagagta	aaggacccaa	gaaaactgct	1680
aaatcaaaaa	aaaagaaacc	tttaaaaaaa	aaacctacac	ctgtgctatt	accacagtca	1740
aagcaacaga	aacaaaagca	ggcaaatgga	gtcgttggga	atgaagctgc	agtaaaggaa	1800
gatgaagaag	aagtttcaga	taagggcagt	gattctgaag	aagaagaaac	caatagagat	1860
tcccaaagtg	agaaagatga	tggtagtgac	agagactctg	atagagagca	agatgaaaaa	1920
caaaacaaag	atgatgaagc	agagtggcaa	gaattacaac	aaagcataca	gcgaaaagag	1980
agagctctat	tggaaaccaa	atcaaaaaata	acacatcctg	tgtatagcct	ttactttcct	2040
gaggaaaaac	aagaatggtg	gtggcctttac	attgcagata	ggaaggagca	gacatttaata	2100
tccatgccat	atcatgtgtg	tacgctgaaa	gatacagagg	aggtagagct	gaagtttcct	2160
gcaccaggca	agcctggaaa	ttatcagtat	actgtgtttc	tgagatcaga	ctcctatatg	2220
ggtttggatc	agattaaacc	attgaagttg	gaagttcatg	aggctaagcc	tgtgccagaa	2280
aatcacccac	agtgggatac	agcaatagag	ggggatgaag	accaggagga	cagtgagggc	2340
tttgaagata	gctttgagga	agaagaggag	gaagaagaag	atgatgacta	agcagtactc	2400
tgaatggacc	acagtgtttg	cacatatattg	caattttttg	ctgttttggg	agtgtatcat	2460
aaaccagaaa	cagtacagaa	ctgatgttga	gggaggtgta	gttttttttac	tctagaaatg	2520
ggtgcataat	ataactaggc	agtggcgggtg	ccttgggtaca	acctgaaaaa	tgttaaggct	2580
tattgaaacc	tttcaagtag	gggatgggtac	atltatlttca	tctgcaaata	ataataaatc	2640
ctttgttatt	ataactgtcc	agaagtgtgg	gctatgtatt	atctgatcag	tctatgggtc	2700
cagtaaaagt	aaagatgcag	gaaacacagt	ctgtaaatga	gcgacttttc	tttgttcagc	2760
tttagtttta	gcaaacacca	caaatatgtt	ttaagtaaca	tcgctcaagt	ttaagtaaca	2820
tcgctcaagt	tgataatctc	ttgataagct	ctgttgttga	cattttgcag	tgatacaaca	2880
gctccactca	tagattttaa	cttttatfct	tacttatctt	ggtcataagt	tggcattctc	2940
tcacattcca	catgatatag	agggctacgt	tttggaaatt	tcctttttct	aattgcccag	3000
agttatcaga	cagattataa	aaatggcctt	taatggctta	aaccatttct	aaacctctat	3060
cttagcagat	caatgcagga	tctaattctt	ttgataagtt	ctagctctaa	aagtgatagt	3120
gggactgtat	gtttttctgat	actggtggct	tatgttatta	aacctttttt	aaaaaaggtt	3180
cactctaaaa	gctgaactac	atccttagtt	ttcagctctac	ttgactctat	caggagcttt	3240
ttaaggaaaag	taagtataac	atgcaaagga	agcttttttt	gtattcattt	tggactcctg	3300
tcaataaaaa	tagaagtttg	ttgactcgtg	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaccc	3360
ccggggggggg	cccc					3374

<210> 185

<211> 1337

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1337)

<223> n equals a,t,g, or c

<400> 185

cttccggttc	tccgggcagc	tgccactgct	gtagctttctg	ccacctgccca	cgaccggggc	60
tctccctggc	gttttggtcac	ctctgcttca	ttctccaccg	cgccataggt	ccctcttggg	120
gccagcgtgg	cgggcctggc	ggctcccggg	tggtgagaga	gcgggtccggg	aacgatgaag	180
gcctcgagc	ctgtgctgctg	tctcagccac	ctcttggctt	ccgtcctcct	cctgctgttg	240
ctgcctgaac	taagcgggyc	cctggmagtc	ctgctgcagg	cagccgaggc	cgcgccaggt	300
cttgggcctc	ctgaccctag	accacggaca	ttaccgccgc	tgccaccggg	ccctaccctt	360
gcccagcagc	cgggcccgtg	tctggctgaa	gctgcggggc	cgcggggctc	cgagggaggc	420
aatggcagca	accctgtggc	cgggcttgag	acggacgac	acggagggaa	ggccggggaa	480
ggctcgggtg	gtggcggcct	tgctgtgagc	cccaaccctg	gcgacaagcc	catgaccag	540
cgggcccctga	ccgtgttgat	ggtggtgagc	gycgcggtgc	tggtgtactt	cgtggtcagg	600

acgggtcagga	tgagaagaag	aaaccgaaag	actaggagat	atggagtttt	ggacactaac	660
atagaaaata	tggaattgac	accttttagaa	caggatgatg	aggatgatga	caacacgttg	720
tttgatgcca	atcatcctcg	aagataagaa	tgtgcctttt	gatgaaagaa	ctttatcttt	780
ctacaatgaa	gagtgggaatt	tctatgttta	aggaataaga	agccactata	tcaatgttgg	840
gggggtattt	aagttacata	tattttaaca	acctttaatt	tgctgttgca	ataaataccg	900
tatcctttta	ttatatcttt	atatgtatag	aagtactctr	ttaatgggct	cagagatggt	960
ggggataaaag	tatactgtaa	taatttatct	gtttgaaaat	tactataaaa	cgggtgttttc	1020
tgatcgggttt	ttgtttcctg	cttaccatat	gattgtaaat	tgttttatgt	attaatcagt	1080
taatgctaata	tatttttgct	gatgtcatat	gttaaagagc	tataaattcc	aacaaccaac	1140
tggtgtgtaa	aaataattta	aaatttcctt	tactgaaagg	tatttcccat	ttttgtgggg	1200
aaaagaagcc	aaatttatta	ctttgtgttg	gggtttttta	aatattaaga	aatgtctaag	1260
ttattgtttg	caaaacaata	aatatgattt	taaattctct	taaaaaaaaa	aaaaaaaaacc	1320
ccggggggggg	gccccggn					1337

<210> 186

<211> 941

<212> DNA

<213> Homo sapiens

<400> 186

ggcacgagcc	tggacgcagc	agccaaccgc	gcgtccctct	ctccacgagg	ctgccgggctt	60
aggaccccca	gctccgacat	gtcgccctct	ggtcgcctgt	gtcttctcac	catcggttggc	120
ctgattctcc	ccaccagagg	acagacgttg	aaagatacca	cgtccagttc	ttcagcagac	180
tcaactatca	tggacattca	ggtcccgaca	cgagccccag	atgcagtcta	cacagaactc	240
cagcccacct	ctccaacccc	aacctggcct	gctgatgaaa	caccacaacc	ccagacccag	300
acccagcaac	tggaaaggaac	ggatgggct	ctagtgcagc	atccagagac	acacaagagc	360
accaaagcag	ctcatccccc	tgatgcacac	acgacgctct	ctgagagacc	atccccaaagc	420
acagacgtcc	agacagaccc	ccagaccctc	aagccatctg	gttttcatga	ggatgacccc	480
ttcttctatg	atgaacacac	cctccggaaa	cgggggctgt	tggtcgcagc	tgtgtgttcc	540
atcacaggca	tcattatcct	caccagtggc	aagtgcaggc	agctgtcccg	gttatgccgg	600
aatcattgca	ggtgagtgca	tcagaaacag	gagctgacaa	ccygtggggc	acccgaagac	660
caagccccct	gccagctcac	cgtgccccagc	ctcctgcata	ccctcgaaga	gcctggccag	720
agagggaaga	cacagatgat	gaagctggag	ccagggtctg	cgggtccgagt	ctcctacctc	780
ccccaaacct	gcccgcacct	gaaggctacc	tggcgctctg	ggggctgtcc	ctcaagttat	840
ctcctctgyt	aagacaaaaa	gtaaagcact	gtggtctttg	caaaaaaaaaa	aaaaaaaaaaa	900
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaactcg	a		941

<210> 187

<211> 678

<212> DNA

<213> Homo sapiens

<400> 187

ggcacgaggc	agcttgtgct	ttaaaggagg	tgttcaaagc	atgtctgagc	agagactttt	60
gggctctgtt	ttaattaata	ctttaaaata	attcatattt	aaaatatcag	atgtttccat	120
aaagaggagg	atgtttaaat	gcctccagac	tacattcctt	tttattcttg	attttacctg	180
ggagtccaaa	gttcaattcc	ataaagcaag	cgtttatttg	tcactttcaa	tatacatcga	240
ttgccatgct	taagatgcaa	tatgggctgc	ggaaataggt	taaccacacag	gctcccaggg	300
cccagtgtag	aaggtgagag	attcgtgtaa	aatgattcaa	ataaaaggaa	gaccctggcc	360
gggtgccgta	gctcacgcct	gtaatcccag	cactttggga	ggccgaagcg	agtggatgac	420
gaggttagga	gttggagacc	agcctggcca	acatcgtgaa	accccgctct	tactaaaaat	480
acaaaaatta	gccgggcatg	gtggcaggca	cctgtaatcc	tagctagtgt	ggaggctgag	540
gcaggagaat	cgtttgaatc	tgggagttgg	aggttgagct	gagctgagat	cgcgccacag	600
cactccagcc	tgggtgacag	ggtgagactc	tgtctcaaaa	aaaaaaataa	ataaataaag	660
taaaaaaaaa	aaaaaaaaa					678

<210> 188
 <211> 1848
 <212> DNA
 <213> Homo sapiens

<400> 188
 gaaactggac cggagaaccg gagcgaagcg aagcgggaagc ccggaatgag gccggactgg 60
 aaagccggag cggggccagg cgggcctccc caaaagcctg ccccttcac ccagcggaaa 120
 ccgccggccc ggccgagcgc ggccggccgct gcgattgcag tcgcggcgcc ggaggaagag 180
 agacggctcc ggccagcggaa ccgcctgagg ctggaggagg acaaaccggc cgtggagcgg 240
 tgcttgagg agctggtctt cggcgacgct gagaacgacg aggacgcgtt gctgcggcgt 300
 ctgcgaggcc cgagggttca agaactgaa gactcgggtg actcagaagt ggagaatgaa 360
 gcaaaaggta attttcacc tcaaaagaag ccagtttggg tggatgaaga agatgaagat 420
 gaggaatgg ttgacatgat gaacaatcgg tttcggagg atagatgaa aaatgctagt 480
 gaaagtaaac tttcgaaaga caaccttaaa aagagactta aagaagaatt ccaacatgcc 540
 atgggaggag tacctgcctg ggccagagact actaagcggg aaacatcttc agatgatgaa 600
 agtgaagagg atgaagatga tttgttgcaa aggactggga atttcatatc cacatcaact 660
 tctcttccaa gaggcattct gaagatgaag aactgccagc atgcgaatgc tgaacgtcct 720
 actgttgctc ggatctccat ctgtgcagtt ccattccggg gcacagattg tgatggttgc 780
 tgggattaga taatgctgta tcaactattt aggttgatgg gaaaacaaat cctaaaattc 840
 agagcatcta tttggaaagg tttccaatct ttaaggcttg ttttagtgct aatgggggaa 900
 aagttttagc caccagtagc cacagcaagg tcttttatgt ctatgacatg ctggctggaa 960
 agttaattcc tgtgcatcaa gtgagaggtt tgaagagaa gatagtgagg agctttgaag 1020
 tctcccaga tgggtccttc ttgctcataa atggcattgc tggatatttg catttgctag 1080
 caatgaagac caaagaactg attggaagca tgaaaattaa tggagggtt gcagcatcca 1140
 cattctcttc agatagtaag aaagtatacg cctcttcggg ggatggagaa gtttatgttt 1200
 gggatgtgaa ctcaagggaag tgccttaaca gatttggtga tgaaggcagt ttatatggat 1260
 taagcattgc cacatctagg aatggacagt atgttgcttg tggtttctaat tgtggagtgg 1320
 taaatatata caatcaagat tcttgtctcc aagaaacaaa cccaaagcca ataaaagcta 1380
 taatgaactt gggtacaggt gttacttctc tgaccttcaa tccactaca gaaatcttgg 1440
 caattgcttc agaaaaaatg aaagaagcag tcagattggg tcatcttctc tccgtgacag 1500
 tattttcaaa ctccccagtc attaaaaata agaataattc tcatgttcat accatggatt 1560
 tttctccgag aagtggatac tttgccttgg ggaatgaaaa gggcaaggcc ctgatgtata 1620
 ggttgaccca ttactcagac ttctaaagag actatttgaa gtccagttga gtcacaagag 1680
 aagcctgtct tgatatatca tctcagaaac tttcctgaat atgtgataat atatggaaaa 1740
 tgatttatag atccagctgt gcttaagagc cagtaatgtc ttaataaaca tgtggcagct 1800
 tttgtttgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaactcga 1848

<210> 189
 <211> 1292
 <212> DNA
 <213> Homo sapiens

<400> 189
 gctgccttgc tccacacctg gtcaggggag agaggggaaa gccaaaggaa gggacctaac 60
 tgaaaaacaaa caagctggga gaagcaggaa tctgcgctcg ggttccgcag atgcagaggt 120
 tgaggtggct gcgggactgg aagtcacatcg gcagaggtct cacagcarcc aaggaacctg 180
 gggcccgctc ctccccctc caggccatga ggattctgca gttaatcctg cttgctctgt 240
 caacagggtc tgtatgggga gagaccagga tcatcaaggg gttcagatgc aagcctcact 300
 ccagccctg gcaggcagcc ctggttcgaga agacgcggct actctgtggg gcgacgtca 360
 tcgccccag atggctcctg acagcagccc actgcctcaa gccccgctac atagttcacc 420
 tggggcagca caacctccag aaggaggagg gctgtgagca gaccgggaca gccactgagt 480
 ccttccccca ccccggttc aacaacagcc tccccacaa agaccaccgc aatgacatca 540
 tgctggtgaa gatggcatcg ccagtctcca tcacctgggc tgtgcgacct ctcacctct 600
 cctcacgctg tgtcactgct ggcaccagct gyctcatttc cggctggggc agcacgtcca 660
 gcccccagtt acgcctgcct cacaccttgc gatgcgcaa catcaccatc attgagcacc 720

agaagtgtga	gaacgcctac	cccggaaca	tcacagacac	catggtgtgt	gccagcgtgc	780
aggaaggggg	caaggactcc	tgccagggtg	actccggggg	ccctctgggc	tgtaaccagt	840
ctcttcaagg	cattatctcc	tggggccagg	atccgtgtgc	gatcaccgga	aagcctgggtg	900
tctacacgaa	agtctgcaaa	tatgtggact	ggatccagga	gacgatgaag	aacaattaga	960
ctggacccac	ccaccacags	ccatcaccct	ccatttccac	ttggtgtttg	gttccctgttc	1020
actctgttaa	taagaaaccc	taagccaaga	ccctctacga	acattctttg	ggcctcctgg	1080
actacaggag	atgctgtcac	ttaataatca	acctgggggt	cgaaatcagt	gagacctgga	1140
ttcaaattct	gccttgaaat	attgtgactc	tgggaatgac	aacacctggg	ttgttctctg	1200
ttgtatcccc	agccccaag	acagctcctg	gccatatatc	aagggttcaa	taaatatttg	1260
ctaaatgaaa	aaraaaaaaa	aaaaaaactc	ga			1292

<210> 190
 <211> 906
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (144)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (145)
 <223> n equals a,t,g, or c

<400> 190						
actccctcac	ccagggtccca	gccctgggaa	ccacctaccg	tgagcccttt	tgcagatata	60
gactcatttc	atcctcagat	ggtccttcaa	ggtagggtact	ttagtcccat	tttagagatg	120
agacgattga	ggccagaggg	gtgnngtaac	ttgcctgggg	gtcacgagc	acaaaaggag	180
ccgaggcagg	atctgacct	tgttctctgg	cctcactgcc	ctcactttgc	catgaccoga	240
agttatgtcc	ctacaaaagca	atgcatggtc	caaggytctt	tttattgtat	ttttattttt	300
aaagggtcctg	ttcaaaactg	gtgtgagctc	tgaggagtcc	tgaaccctgg	gtgcagcatc	360
ctagcatcct	gggagtcctt	ttctgcccac	actgagctgg	gtcctcagag	gggtggggct	420
gctgtccctg	gaagcctggc	agcagcactg	tatcggggtg	gctgaagctg	arcgccgtgg	480
ggtgcagggc	tccmgaatc	cccggtttggc	tgaaggggtt	ccctgtagcc	mgggatgttt	540
atgaggtctc	tctgatgcc	caggcgcagg	acatgtgtgc	gggtggagaa	aagcaggccc	600
tttcagtgcc	agctccactc	aatttctatg	tggaccaaga	acgataaact	taaaaaattt	660
tttttcctaa	ggtatcttca	gaatatgggtg	tatttttatg	tggaaaagaa	aagttatgaa	720
ggcagctgtt	actttaagag	aaaattcatt	aaaagtcctc	gaggtatgaa	gatgacggcg	780
tgcttctcaa	tcattttggc	ataacttgat	tgtggctgta	attttttttt	ttttttttgt	840
caagcatgtc	agacaataaa	gtctttgtaa	aaagrgaaaa	aaaaaaaaaa	aaaaaaaaaa	900
actcga						906

<210> 191
 <211> 1941
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (561)
 <223> n equals a,t,g, or c

<220>
 <221> SITE

<222> (1414)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1422)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1427)
 <223> n equals a,t,g, or c

<400> 191

cttcagctga	agcccaggga	ccccttttcc	accctggggc	ccaatgccgt.	cctttccccc	60
cagagactgg	tcttggaac	cctcagcaaa	ctcagcatcc	aggacaacaa	tgtggacctg	120
attctggcca	cacccccctt	cagccgcctg	gagaagtgtg	atagcactat	ggtgcgcttc	180
ctcagtgacc	gaaagaaccc	ggtgtgccgg	agatggctgt	ggtactgctg	gccaacctgg	240
ctcaggggga	cagcctggca	gctcgtgcc	ttgcagtga	gaagggcagt	atcggcaacc	300
tecttggcctt	cctagaggac	agccttgccg	ccacacagtt	ccagcagagc	caggccagcc	360
tcctccacat	gcagaaccca	ccctttgagc	caaytagtgt	ggacatgatg	cggcggtgtg	420
cccgcgcgct	gcttgccttg	gccaagggtg	acgagaacca	ctcagagttt	actctgtacg	480
aatcacggct	gttggacatc	tcggtatcac	cgttgatgaa	ctcaktggtt	tcacaagtca	540
tttgtgatgt	actgtttttg	nattggccag	tcattgacagc	cgtgggacac	ctcccccccc	600
cgtgtgtgtg	tgcgtgtgtg	gagaacttag	aaactgactg	ttgcccttta	tttatgcaaa	660
accacctcag	aatccagttt	accctgtgct	gtccagcttc	tcccttggga	aaaagtctct	720
cctgtttctc	tctcctcctt	ccacctcccc	tccctccatc	acctcacgcc	tttctgttcc	780
ttgtcctcac	cttactcccc	tcaggaccct	acccccacct	ccttgaaaag	acaaagctct	840
gcctacatag	aagacttttt	ttattttaac	caaagttact	gttggtttaca	gtgagtttgg	900
ggaaaaaaaa	taaaataaaa	atggcctttc	cagtccttgc	atcaacggga	tgccacatth	960
cataactgtt	tttaattgga	aaaaaaaaaa	aaaaaaaaat	aaaaaaaaat	tctgaaggac	1020
aaaaaagggtg	actgctgaac	tgtgtgtggt	ttattgttgt	acattcacia	tcttgcagga	1080
gccagaaggt	tcgcagttgt	gaacagaccc	tgttcactgg	agaggcctgt	gcagtagagt	1140
gttagaccctt	tcattgtactg	tactgtacac	ctgatactgt	aaacatactg	taataataat	1200
gtctcacatg	gaaacagaaa	acgctgggtc	agcagcaagc	tgtagttttt	aaaaatgttt	1260
ttagttaaac	gttgaggaga	aaaaaaaaaa	aggccttttc	cccaaagtat	catgtgtgaa	1320
cctacaacac	cctgacctct	ttctctctct	cctgattgta	tgaataaccc	tgagatcacc	1380
tcttagaact	ggtttttaacc	tttagctgca	gcgncatcgt	cnawcgntgt	gtatatatat	1440
gacgtkgtac	attgcacata	cccttgatc	cccacagttk	ggtcctcctc	ccagctaccc	1500
ctttatagta	tgacgagtta	acaagttggt	gacctgcaca	aagcgagaca	cagctattta	1560
atctcttgcc	cagatatcgc	ccctcttggt	gcgatgctgt	acaggtctct	gtaaaaagtc	1620
cttgctgtct	cagcagccaa	tcaacttata	gtttatthtt	ttctgggttt	ttgttttgtt	1680
ttgttttctt	tctaactcgag	gtgtgaaaaa	gttctaggtt	cagttgaagt	tctgatgaag	1740
aaacacaatt	gagatttttt	cagtataaaa	atctgcata	ttgtatttca	acaatgtagc	1800
taaaacttga	tgtaaattcc	tccttttttt	ccttttttgg	cttaaatgaat	atcattttatt	1860
cagtatgaaa	tctttatact	atatgttcca	cgtgttaaga	ataaatgtac	attaaatctt	1920
ggtaagactt	taaaaaaaaa	a				1941

<210> 192
 <211> 2118
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> n equals a,t,g, or c

```

<220>
<221> SITE
<222> (112)

```

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (147)

<223> n equals a,t,g, or c

<400> 193

ccgggttcgg	ctctgtgtca	gcagccgggc	ggcgctcggg	cgggacatgg	cagcctgtac	60
agccccggcg	cctggccgtg	ggcagccgct	ggtggccccg	gtcgctgact	gnggccccgt	120
ggccaaggcc	gctctgtgcg	cggccgnagc	tggagccttc	tcgccagcgt	cgaccacgac	180
gacgcggagg	cacctctcgt	cccgaaccg	accagagggc	aaagtgttgg	agacagttgg	240
tgtgttttgg	gtgccaaaac	agaatggaaa	atatgagacc	gggcagcttt	tccttcatag	300
cattttttggc	taccgaggtg	tcgtcctgtt	tccctggcag	gccagactgt	rtgaccggga	360
tgtggccttct	gcagctccag	aaaaagcaga	gaaccctgct	ggccatggct	ccaaggaggt	420
gaaaggcaaaa	actcacactt	actatcaggt	gctgattgat	gctcgtgact	gcccacatat	480
atctcagaga	tctcagacag	aagctgtgac	cttcttggct	aaccatgatg	acagtcgggc	540
cctctatgcc	atcccaggct	tggactatgt	cagccatgaa	gacatcctcc	cctacacctc	600
cactgatcag	gttccccatcc	aacatgaact	ctttgaaaga	tttcttctgt	atgaccagac	660
aaaagcacct	cctttttgtgg	ctcgggagac	gctaaagggc	tggcaagaga	agaatcacc	720
ctggctggag	ctctccgatg	ttcatcggga	aacaactgag	aacatacgtg	tactgtcat	780
ccccctctac	atgggcatga	gggaagcca	gaattcccac	gtgtactggt	ggcgctaactg	840
tatccgtttg	gagaaccttg	acagtgatgt	ggtacagctc	cgggagcggc	actggaggat	900
attcagtcctc	tctggcacct	tggagacagt	gcgaggccga	ggggtagtgg	gcagggaacc	960
agtgttatcc	aaggagcagc	ctgcgttcca	gtatagcagc	cacgtctcgc	tgcaggcttc	1020
cagtgggcac	atgtggggca	cgttccgctt	tgaagacct	gatggctccc	actttgatgt	1080
tcggattcct	cccttctccc	tggaaagcaa	taaagatgag	aagacaccac	cctcaggcct	1140
tcactggtag	gccagctgag	gccccaaagt	cccaggcttg	gtcaccggga	agaacaactc	1200
tcattcccaca	attgctgcag	aactcttctc	tccccatcat	gggccacagt	gggtctctta	1260
atttgattgt	ggggttcttt	ttgtggggag	gggtggtata	acttttcttc	agaagaccca	1320
tgtggggacac	ctccaaggct	ggcctcctca	taagccctgc	ctacaccatg	ttccagtaaa	1380
cctctccacc	aagggaactgt	gttcagctgc	cacaggcctg	gaggagtttc	ctggcctgtc	1440
acgtgaggtt	tgatcagtaa	accagtgcas	gyttggccaa	aaaaaaaaaa	aaaaaaaaaa	1500
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaactcga			1538

<210> 194

<211> 1098

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (301)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> SITE

10004360.120701

<222> (438)

<223> n equals a,t,g, or c

<400> 194

agaccctgtc	tcaaataata	ataataataa	taatcttatt	ttggagaata	aagagaccts	60
tggatttgag	gtgccatttg	ggtagaaaga	aaagacgttt	acaccgagaa	atagtctgtg	120
ttgccctgaa	ggagcagagg	gatgcacgc	tggagggtgac	ctacagtgtga	agaagactca	180
ttatgacaga	ccttgtcctt	cttccttgtg	gaaagtgttt	cctctgctgc	tactgctcat	240
gagactcttc	cccctccctg	tcccagggaa	ccaaagggct	ttntaccac	accctttctt	300
ngccccccgc	ctcccatgtc	tgctgtgcct	ttgtactcag	caattcttng	tttgctccca	360
ttatcttcca	gccggataca	gagtgaatag	ttaaccacac	ttaggtcaaa	taggatctaa	420
atTTTTgttc	ctgctccngt	gtaaagaggc	cagtgtttgt	gtgttgcaag	cagccttggg	480
atagtaactc	ttctcatttg	tttgggatct	ggccamcaag	ttccagaatg	atacacggat	540
cagtgcagaa	gttcatcagg	ctctcggacc	ttagggctgt	tggagaaggc	ttcagcagca	600
gaactgatgg	tkawkgytcg	tgttctccat	cctcaacttt	ctttgcttcg	atcatacaca	660
agaatacatt	tggaagggca	aaaaatgaac	actgttgttc	attgcagccg	tgttttgtga	720
cacagatgca	cagtctgctg	tgaagacctt	ctctcaagtg	gsatytgga	gtccatgcc	780
gatcatgggtg	cttcatgaga	gactgacagc	tatcaggggt	tgtggcactt	agtgaggact	840
ctctctcccc	agtgtgtgct	gatgacacat	acacacctga	caatagcttg	agtcttctct	900
gttcttttta	ctctgtagcc	aacatacaca	tgatttaaaa	ccctttctaa	atatctatca	960
tggttcatcc	ttgtccaaat	gcagagtcag	agctatttgt	acttcattat	tatttccaag	1020
gcgaatagtt	ggctttcttt	ttgcaaaaat	aattaaagtt	tttgtatgtt	gcaaaaaaaa	1080
aaaaaaaaaa	ctacgtag					1098

<210> 195

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 195

gaattcggca	cgagatagct	tgcattctcat	cccagtaaaa	ccacttattt	ataacatata	60
aacgtattga	caagggttgaa	gagcaagatt	gttctgaggt	gagatgcaaa	tttcaaaggg	120
gtgagcacta	attgttccag	tgattgttta	tttattggct	aggacataat	tactctcttt	180
gaggttacac	atctgcctcc	aggttcctgt	gtgcttgtgc	ccttgggatc	aggccaaggg	240
agactgtgat	cactgagatt	caaactccca	gartaatcag	caagagcttt	ctagagacca	300
aggccaggcc	tgatccctga	gggatgcag	agaaggcttg	gaatctcatt	ctgctatggt	360
ggctctctct	tgatcttctt	ggagtagcaa	aaacagcaat	gtgggcccaa	tggtgtggcc	420
taaatgatca	caaaggtaaa	tgagtaaagg	gtcagcaga	tgagtaagga	gccttgcctt	480
gagaaattag	cactgggctc	tgcattcaga	aacatgtgat	aagcattgcc	cattgcacat	540
tgcctttatt	gtgtaaggac	atgaaattcc	agttttgcat	agctagtgat	gaatacctga	600
agggaattgc	agacatat	tattttattt	ttaattgaca	gatggaattg	tatatattta	660
tcatgtacat	aatcatgctt	taaaatatgt	acattatgga	atggctaaat	caaactaacc	720
taggcattat	ctcatataat	tgtcattttt	gtggcgagaa	gactaaaaat	ctaccctttc	780
agcattttta	agaatacaaa	tgtgttttat	taacaacagt	caccatttgg	tacactagat	840
ctcttgaact	tcttctctct	atctaactga	gatcttgtaa	cctttgataa	cagctcccaa	900
gcccttcccc	aaccactgct	ccaccctgtg	taaccacat	tctattctca	acttctctgt	960
aatcaccatt	ctagacacag	ggaagactct	ctaccctctg	a		1001

<210> 196

<211> 1458

<212> DNA

<213> Homo sapiens

<400> 196

ggcacgagat	aaactgaaat	aggctcatgca	aatataaaat	attattttta	aattatttgt	60
cataagaaac	gatgggtggcc	atatttttgc	ttaataatgg	aaaaaatgtg	gttagcattc	120

tgtggaaggt	ggtcatcaga	tagtagacat	tttctaggat	ttatttctac	ctgcatatgt	180
ggaaatgtgt	actactttag	atthatttaa	tggcagctaa	ctcagaggca	tcaaaatgtg	240
ctaattggtgt	aatatggcct	ttgtcttgct	gttctgtttt	gtaggccttc	aatcaagcag	300
ggcagggccg	tacagtgaac	ttgtcctttg	ccagacgcca	gcgtctgccc	ctgaccccgt	360
ctccactctc	tgtgtcctgg	aggaggagcc	ccttgatgcc	taccctgatt	caccttctgc	420
gtgccttgta	ctgaactggg	aagagccgtg	caataacgga	tctgaaatcc	ttgcttacac	480
cattgatcta	ggagacacta	gcattaccgt	gggcaacacc	accatgcatg	ttatgaaaga	540
tctccttcca	gaaaccacct	accggtgagt	gcaagggagt	agaaatctgc	atcagcacat	600
cagcacttgg	ggaictaagt	aaacctctcg	gggaaaatga	ccaagtggat	gtcatctccc	660
agctgtttot	aagagcccag	atgtccagag	tattgtctca	ccttgatccc	tcaggccaga	720
agacctgtga	aaaagccaca	ctggttcagg	gactcactgg	acggttttgt	gtccactcta	780
acctgcaccg	tctctacccc	agagtggact	caaatcctca	agtcagtcct	ctgaacattg	840
aagtcagaaa	ttataaaaagg	gctttggcaa	tatgttagcc	caagaatttg	gcttcttcca	900
gaaattgtgc	cgaccttaac	agtggcttaa	atgatggtaa	aacttttaag	atttctaaaa	960
ggatggcatt	ggagatacgt	tgacttttat	taaacaacct	atagttgttt	aatgacttct	1020
aaaaaaatat	ctggagctca	ggggttcaac	tgagggaaca	catgttgaga	atcattgttt	1080
actaattaaa	tgccaggtaa	ccgttgaaat	tatcaaaaac	atcttccacg	taccagaaaag	1140
cactcagagg	atagttctgt	tatggagaag	atgaaatggt	ttagtagtgt	aggaactatg	1200
gaaagggtgag	cttagatttg	gatagtaaaa	cctcaagacc	ctatttaaaa	agtattttat	1260
gaatgcagca	taaataatth	aattcagtgt	taaatgccaa	ggctagtata	ttgagctgaa	1320
tgtgaaaaga	aactcacatt	gggagaatgc	caccttttcc	ttataagata	gctttgaaga	1380
taccatttta	gacagattga	aattgaatag	ctttagaaaa	ggcaaattgt	tgatcttggg	1440
gaaaaaaaaa	aaaaaaaaa					1458

<210> 197
 <211> 1282
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (675)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1195)
 <223> n equals a,t,g, or c

<400> 197						
gaaaaaaaaa	agtatgacc	agtagctagg	cacctgtggc	cccgccaagt	tgacacataa	60
aattaactgt	cacagtatca	tcttagaagt	gaaagaagcc	cctttatcct	gcagtgcctc	120
tctaccacca	cctactgaca	aagaacatgg	tgctatctgg	catgggagaa	atgttcagtt	180
tgctatggct	tgatgtgtc	ccctcaaatt	caagtgttgc	caatgtgaca	gcataagag	240
gtggggtctt	taagagatca	ctaggccatg	agggattctc	ttaggactgg	gatgaaggcc	300
cataataaaa	gagggtttcag	ggagcatcct	gctagcttgc	cttctgtatg	tgagaacaca	360
gcaagaaaagc	cctagtcaac	aagtgccagc	tccttgatct	tagacttccc	atcctccaga	420
actgtgagaa	atacatttct	gttccttaca	aattaccocag	tctcctgtat	tctgttatag	480
cagcacaaaa	tgaagatacc	atacctgaac	acctgaacat	tcttcacaag	gtagtaaattg	540
cactgcttta	ttctgggtctc	agtattgtgt	gcttaataag	gaaatgagaa	aggggtggatc	600
agggcatagg	atgaacaagt	tactgctaga	cctctcacaa	tgccactaat	ggataagatt	660
gtattttcat	cttntcttgt	ctcttcggaa	gctaaccacca	tgctataata	ggcactaaat	720
agatgtctaa	aaacacctta	agtatttgtc	tagaaatctg	gtgcattgtc	cagaaagaac	780
caaaattcma	aataatttca	aagggcctaa	agcactaktt	aatcmaaatt	cattagtttt	840
taatgggtact	accactctca	aattttaaatt	gtcatctttac	gttctcttcc	ctcgcatggg	900
atthatttgct	aaaacctggg	aaacacttta	atccytttca	attocattac	cactgctctt	960
gtccagaatt	actcgcagac	taatagtcac	ctgacttctc	cccctgcac	ccgatttggc	1020

gtctaattct	ggttacaaat	aagtaactgc	caaactaatc	tttctaataa	gcaagactga	1080
tctcgtaact	cctttgtcta	acaatgtaaa	agctcccat	gtctcccaa	taaaaccagc	1140
tttccactgt	gtatacaata	catccatgat	ctgtatccag	catcattttg	tattngctca	1200
ctttatacac	caccccccat	gccacatcaa	attaaattat	cctgataaat	gcaactgcaa	1260
aaaaaaaaaa	aaaaaaaaactc	ga				1282

<210> 198

<211> 951

<212> DNA

<213> Homo sapiens

<400> 198

atctcggaac	gaggactgaa	gtgggagcgg	cggcagggtg	gaagacagaa	gggggatcta	60
tgtggttaact	aaagaatgtt	tctgttttgt	taattattgt	gtgtgtgtgg	ttttatttgt	120
tgcttaagag	aatcaaaaac	tgaaaaaaat	gagaatacag	gaaatggctc	ttgtttatct	180
ttttgctgtg	tttacagctt	gttaattgctc	tactgtcttt	gtttcaagag	agatttgttc	240
actgcccagc	tcgttttgtg	tcctgagccc	tatgcccagc	ccaccttata	aatcatgcct	300
gtttagatgt	ttgattttgt	tctgttttgt	attgttatct	taaaggtgta	taactctgac	360
atgccagaca	tcaaattaag	ctcaaattaa	gctctcgttt	aaatgtttta	acaccttaatt	420
tatattctaa	ttgatcccag	ccactgatgc	atgtacttta	gctacttctg	ctaaaataagc	480
atattaattt	tccacatcag	gccatcagat	cttgagaacc	aacagttatc	tagaattccg	540
tgtctactaa	tgtttcacct	gcattgcagc	ttcattaatt	ttgtagcaaa	atataaagtg	600
atcattatgt	agtttctgga	ttaaaaaaat	ttgtgtgtga	agttgctttg	taaagtgcatt	660
gtggaattaa	tgggacagtg	tgccctttgt	gttagatgtt	agaacaaaag	aaagggctta	720
tagtgtagt	attggagcac	tttgaagata	gatattttca	gaaaagatgt	aggattttaa	780
agttaaattt	taaaattttag	aaaaagatat	gatggcaatt	ggaaatagtc	acaatgaagt	840
tcttcatcca	gtaggtgttt	aacagtgtta	ttttgccact	ggtaatgtgt	aaactgtgag	900
tgatttacia	taaatgatta	tgaattcaaa	aaaaaaaaaa	aaaaaactcg	a	951

<210> 199

<211> 1740

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1310)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1736)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1737)

<223> n equals a,t,g, or c

<400> 199

ttattataat	aatgatgatg	attccaagga	aaaaacctac	agcgaatgtt	ccattttctac	60
cccgcacgca	gacactctcc	ctaactctga	taacctgagc	ccccagcact	ggacggaaga	120
atgctggcgt	ctccgtgtgt	actggttcag	ggttctggcc	ccagccttgt	caggaccccc	180
tggtgtccag	agccccacc	cctcccgcag	caagcagctg	atgccccagt	gattctctat	240
acatttttca	cctcgcccaa	tatgtccag	aaaactgctt	acttctcttt	tcttgccctg	300
agcccttcatt	gttcaccctt	acgttgcaat	ataggaatta	atgctacaaa	ataaaaagtaa	360

J0004560-120701

agcttacctg	aaaagtgc	agtttggggc	aatgggtatct	acatctccca	ctgtgggaaa	420
accagcaaag	catcaaaact	ctcaattctc	ctgttaccra	atgcagatct	gaattataag	480
atgtttatgt	ttgaccattg	tttcaacaat	gggattttgt	tacgaattat	ccctttaact	540
gaaaccctca	gttttactgt	ttacattatt	agggaaacag	ggatatcttt	tgaatctaaa	600
aattttgatgt	acagcatgtg	atttttgaag	tttacatgta	aagtcacagt	ataggtgaaa	660
taacgtttgt	catattttga	gacgtatcct	gcagccatgt	ttttacgtga	gtgttttagt	720
caaagtacat	ggtagacagt	ctttcacaat	aaaaggaaaa	ggattttttt	tcctccaaat	780
gtacatttat	caacctaattg	attgattttt	ttaaaaagag	atttcgcccc	agtctggttt	840
atgaaagtgc	attgccctaa	actgtgctga	ttgtttttta	tcaagttata	aatttccaac	900
ctagatcatg	tatctaccaa	ctctcctgca	ttttccaaaa	ggcattgagc	ttaaatatta	960
gtcttgctta	gagtaggtta	tccacttaca	tgctgcgcta	aagccatgcc	tttgaaactc	1020
cttgttttaa	acatgatatg	atttttgtgg	gcagtttcag	aaaagaaaac	aaacaaacaa	1080
aaatcgaccc	tttaattatt	acttgcaact	caacagatct	ccctgccgta	ctgccttttc	1140
caggaacttt	acttcagggc	tgctcagatt	gcagttgtgc	cccgtgtatg	tggatctagt	1200
tcacagagtc	tttggagacc	agcagtcgtg	ccctccgtat	actgtccact	catttttatgt	1260
agatttggtg	tcctcagcag	ccagtgttaa	caccactgtc	acgtagttaa	cagattcatc	1320
ttttatgtat	ttaaagtaat	ccatactatg	atttggtttt	tcctgcacc	attaattctg	1380
gcacagatc	agtttttgtg	ttgtgaagtt	ctactgtggg	ttgacccaag	accacaacca	1440
tgagaccctg	aagtaaaagat	aaggtacaca	tacattattt	gagtaactgt	ttccttgggg	1500
gccaatctgt	gtatgctttt	agaagtttac	agaatgcttt	tatttttgtc	tataacaaac	1560
agtctgtcat	ttattttctgt	tgataaaacca	tttggacaga	gtgaggacgt	ttgccctgtt	1620
atctcctagt	gctaacaata	cactccagtc	atgagccggg	ctttacaaat	aaagcacitt	1680
tgatgactca	maaaaaaaaa	aaaaaaaaamc	ycggggggggg	gccggttaacc	catttnnccc	1740

<210> 200

<211> 1707

<212> DNA

<213> Homo sapiens

<400> 200

gcttatagaa	gggagaggag	cgaacatggc	agcgcgttgg	cggtttttgg	gtgtctctgt	60
gaccatgggtg	gtggcgctgc	tcacgttttg	cgacgttccc	tcagcctctg	cccaaagaaa	120
gaaggagatg	gtgttatctg	aaaagggttag	tcagctgatg	gaatggacta	acaaaagacc	180
tgtaataaga	atgaatggag	acaagtcccg	tcgccttgtg	aaagcccac	cgagaaatta	240
ctccgttatc	gtcatgttca	ctgctctcca	actgcataga	cagtgtgtcg	tttgcaagca	300
agctgatgaa	gaattccaga	tcctggcaaa	ctcctggcga	tactccagtg	cattcaccaa	360
caggatattt	tttgccatgg	tggattttga	tgaaggctct	gatgtatttc	agatgctaaa	420
catgaattca	gctccaactt	tcacaaactt	tcctgcaaaa	gggaaaccca	aacgggggtga	480
tacatatgag	ttacaggtgc	gggttttttc	agctgagcag	attgcccggt	ggatcgccga	540
cagaactgat	gtcaatatta	gagtgattag	acccccaaat	tatgctggtc	cccttatgtt	600
gggattgctt	ttggctgtta	ttgttggact	tggttatctt	cgaagagtaa	tatggaattt	660
ctctttaata	aaactggatg	ggcttttgca	gctttgtgtt	ttgtgcttgc	tatgacatct	720
ggtcaaatgt	ggaaccatat	aagaggacca	ccatatgccc	ataagaatcc	ccacacggga	780
catgtgaatt	atatccatgg	aagcagtcga	gccaggtttg	tagctgaaac	acacattgtt	840
cttctgttta	atggtggagt	taccttagga	atggtgcttt	tatgtgaagc	tgctacctct	900
gacatggata	ttggaaagcg	aaagataatg	tgtgtggctg	gtattggact	tgttgtatta	960
ttcttcagtt	ggatgctctc	tattttttaga	tctaaatata	atggctaccc	atacagcttt	1020
ctgatgagtt	aaaaaggtcc	cagagatata	tagacactgg	agtactggaa	attgaaaaac	1080
gaaaatcgtg	tgtgtttgaa	aagaagaatg	caacttgtat	attttgtatt	acctcttttt	1140
ttcaagtgat	ttaaatagtt	aatcatttaa	ccaaagaaga	tgtgtagtgc	cttaacaagc	1200
aatcctctgt	caaaatctga	ggtattttgaa	aataattatc	ctcttaacct	tctcttccca	1260
gtgaacttta	tggaaacattt	aatttagtac	aattaagtat	attataaaaa	ttgtaaaact	1320
actactttgt	tttagttaga	acaaagctca	aaactacttt	agtttaacttg	gtcatctgat	1380
tttatattgc	cttatccaaa	gatggggaaa	gtaagtcctg	accagggtgt	cccacatatg	1440
cctgtttacag	ataactacat	taggaattca	ttcttagctt	cttcatcttt	gtgtggatgt	1500
gtatacttta	cgcatctttc	cttttgagta	gagaaattat	gtgtgtcatg	tgggtcttctg	1560
aaaaatggaac	accattcttc	agagcacacg	tctagccctc	agcaagacag	ttgtttctcc	1620

```
<210> 201
<211> 779
<212> DNA
<213> Homo sapiens
```

```
<210> 202
<211> 1617
<212> DNA
<213> Homo sapiens
```

[illegible]

<210> 203
 <211> 1974
 <212> DNA
 <213> Homo sapiens

<400> 203
 gaatttcggca cgaggctgag ggagctgcag cgcagcagag tatctgacgg cgccagggttg 60
 cgtaggtgag gcacgaggag ttttcccgcc agcgaggagg tcctgagcag catggccccg 120
 aggagcgcct tccctgcccgc cgcgctcttg ctctggagca tcctcctgtg cctgctggca 180
 ctgcgggcgg aggcggggcc gccgcaggag gagagcctgt acctatggat cgatgctcac 240
 caggcaagag tactcatagg atttgaagaa gatatcctga ttgtttcaga ggggaaaatg 300
 gcacctttta cacatgattt cagaaaagcg caacagagaa tgccagctat tcctgtcaat 360
 atccattcca tgaattttac ctggcaagct gcagggcagg cagaatactt ctatgaattc 420
 ctgtccttgc gctccctgga taaaggcatc atggcagatc caaccgtcaa tgtccctctg 480
 ctgggaacag tgcctcaciaa ggcatcagtt gttcaagttg gtttcccatg tcttggaata 540
 caggatgggg tggcagcatt tgaagtggat gtgattgtta tgaattctga aggaacacc 600
 attctccaaa cacctcaaaa tgctatcttc tttaaaacat gtcaacaagc tgagtgccta 660
 ggcggggtgcc gaaatggagg cttttgtaat gaaagacgca tctgagagtg tcctgatggg 720
 ttccacggac ctactgtga gaaagccctt tgtacccac gatgtatgaa tgggtggactt 780
 tgtgtgactc ctggtttctg catctgccc cctggattct atggagtga ctgtgacaaa 840
 gcaaaactgt caaccacctg ctttaattgga gggacctgtt tctaccctgg aaaatgtatt 900
 tscctccag gactagagg agagcagtg gaaatcagca aatgccaca accctgtcga 960
 aatggaggta aatgcattgg taaaagcaaa tgtaagtktt ccaaagggtta ccaggagac 1020
 ctctgttcaa agcctgtctg cgagcctggc tgtggtgcac atggaacctg ccatgaacct 1080
 aacaaatgcc aatgtcaaga aggttggcat ggaagacact gcaataaaag gtacgaagcc 1140
 agcctcatc atgcccctgag gccagcaggc gcccagctca ggcagcacac gccttcactt 1200
 aaaaaggccg aggagcgccg ggatccacct gaatccaatt acatctggtg aactccgaca 1260
 tctgaaacgt ttttaagttac accaagttca tagcctttgt taacctttca tgtgttgaat 1320
 gttcaaataa tgttcattac acttaagaat actggcctga attttattag cttcattata 1380
 aatcactgag ctgatattta ctcttccttt taagttttct aagtacgtct gtagcatgat 1440
 ggtatagatt ttcttgtttc agtgcttttg gacagatttt atattatgtc aattgatcag 1500
 gttaaaattt tcagtgtgta gttggcagat attttcaaaa ttacaatgca tttatggtgt 1560
 ctgggggagc ggggaacatca gaaagggtta attgggcaaa aatgcgtaag tcacaagaat 1620
 ttggatggtg cagttaattg tgaagttaca gcatttcaga ttttatgtc agatatttag 1680
 atgtttgtta cttttttaa aattgctctt aattttttaa ctctcaatac aatatatttt 1740
 gaccttacca ttattccaga gattcagtat taaaaaaaaa aaaattacac tgtggtagt 1800
 gcattttaa acatataatat attctaaaca caatgaaata gggaaatataa tgtatgaact 1860
 ttttgattg gcttgaagca atataatata ttgtaaacaa aacacagctc ttacctata 1920
 aacattttat actgtttgta tgtataaaat aaagggtgctg ctttagtttt ctga 1974

<210> 204
 <211> 1057
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (50)
 <223> n equals a,t,g, or c

10004560-120701

<220>
 <221> SITE
 <222> (132)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (751)
 <223> n equals a,t,g, or c

<400> 204

cggccttccg	gggcaaccgt	tcgtcccaac	ncgggaaagg	gtcctggagn	cgggaaactag	60
gagcctcgga	agtccaagg	cggagcgccc	tttgctaata	agccaatcag	aacgtgagac	120
gctccggtgg	gncggtgccg	tcgagcgcg	ggtggagtct	gggtgacttg	gctggcgggga	180
tcaagtgcag	ctgcttcagg	ctgaggtggc	agatagtgag	cgctggtggc	ggagttaaag	240
tyaaagcagg	agagtaatwa	tgaatagcgc	agcgggattc	tcacacctag	accgtcgcgga	300
gcgggttctc	aagttagggg	agagtttcga	gaagcagccg	cgctgcgctt	ccacactgtg	360
cgctatgact	tcaaacctgc	ttctattgac	acttcttctg	aaggatacct	tgagkttggc	420
gaagktgaac	agktgaccat	wactctgccm	aatatagaaa	gttgaaggaa	gcagtaaaat	480
tcagtatcgt	aaagaacaac	agcaacaaca	atgtggaatt	casccaggac	tcccaatctt	540
gtaaaacatt	ctccatctga	agataagatg	tccccagcat	ctccaataga	tgatatcgaa	600
agagaactga	aggcagaagc	tagtctaattg	gaccagatga	gtagttgtga	tagttcatca	660
gattccaaaa	gttcatcctc	ttcaagtagt	gaggatagtt	ctagtgactc	agaagatgaa	720
gattgcaaat	cctctacttc	tgatacaggg	naattgtgtc	tcaggacatc	ctaccatgac	780
acagtacagg	attcctgata	tagatgccag	tcataataga	tttcgagaca	acagtggcct	840
tctgatgaat	actttaagaa	atgatttgca	gctgagtga	tcaggaagtg	acagtgatga	900
ctgaagaaat	atthagctat	aaataaaaaat	ttatacagca	tgtataattt	attttgtatt	960
aacaataaaa	attcctaaga	ctgagggaaa	tatgtcttaa	cttttgatga	taaaagaaat	1020
taaatttgat	tcagaaaaaa	aaaaaaaaaa	aactcga			1057

<210> 205
 <211> 721
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (264)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (340)
 <223> n equals a,t,g, or c

<400> 205

gaattcggca	cgagtcaccc	ctctccctct	ttcactccct	tactcttact	ctgttttttg	60
tgctccagac	agacagaccc	tacctctttt	gcttcttttt	tgtttggttg	ttttgagatg	120
gagtgtcgct	cttggtgccc	aggctggagt	gcagtggcgc	aatctcggtc	caccacaacc	180
tctgcctccc	gggttcaagc	aattctcctg	cctcagcctc	ccgagaagct	ggggattaca	240
ggcatgcgcc	accacaccca	gctnaatttt	atatttttag	tagagatggg	gtttctccat	300
gttggtcagg	ctggcctcaa	actcccaacc	tcaggtgatn	ccgcctgctt	tggcctcccc	360
aaagtgtctg	gattacaggc	gtgagccact	gcgcccagcc	tcttttgctc	ctttatactc	420
attaactcac	gcctgtaatc	cctgttttgg	gaggccaaaag	tgagaagggt	gcttgaggcc	480
aagagtttga	gactagcctg	ggcaacacag	caagatgcca	tctttataat	aaaaataaaa	540
ataaaaaatca	attagctggg	catggtggaa	cgcacctgta	gtcccagcca	attgagaggc	600
tgaagtggga	ggatcattga	gccaggaggt	tgaggttgca	gtgagccatg	atcatgtcac	660

10004350.120701

tacactcagc ctgggcaata gagggacatg ttgtctctaa aaaaaaaaaa aaaaaactcg
a

720

721

<210> 206

<211> 2465

<212> DNA

<213> Homo sapiens

<400> 206

ccaccatttta	tccaactgaa	gaggagttac	aggcagttca	gaaaattggt	tctattactg	60
aacgtgcttt	aaaactcggt	tcagacagtt	tgtctgaaca	tgagaagaac	aagaacaaag	120
aggagatga	taagaaagag	ggaggtaaag	acagagcttt	gaaaggagtt	ttgcgagtgg	180
gagtattggc	aaaaggatta	cttctccgag	gagatagaaa	tgtcaacctt	gttttgctgt	240
gctcagagaa	accttcaaag	acattattaa	gccgtattgc	agaaaaccta	cccaaacagc	300
ttgctgttat	aagccctgag	aagtatgaca	taaaatgtgc	tgtatctgaa	gcggcaataa	360
ttttgaattc	atgtgtggaa	cccaaaatgc	aagtcactat	cacactgaca	tctccaatta	420
ttcgagaaga	gaacatgagg	gaaggagatg	taacctcggg	tatggtgaaa	gacccaccgg	480
acgtcttgga	caggcaaaaa	tgccttgacg	ctctggctgc	tctacgccac	gctaagtggg	540
tccaggctag	agctaattgg	ctgcagtcct	gtgtgattat	catacgcat	cttcgagacc	600
tctgtcagcg	agttccaact	tggtctgatt	ttccaagctg	ggctatggag	ttactagtag	660
agaaagcaat	cagcagtgct	tctagccctc	agagccctgg	ggatgcactg	agaagagttt	720
ttgaatgcac	ttcttcaggg	attattctta	aaggtagtcc	tggacttctg	gatccttggt	780
aaaaggatcc	ctttgatacc	ttggcaacaa	tgactgacca	gcagcgtgaa	gacatcacat	840
ccagtgcaca	gtttgcattg	agactccttg	cattccgcc	gatacacaaa	gttctaggca	900
tggatccatt	accgcaaattg	agccaacggt	ttaacatcca	caacaacagg	aaacgaagaa	960
gagatagtga	tggagttgat	ggatttgaag	ctgaggggaa	aaaagacaaa	aaagattatg	1020
ataactttta	aaaagtgtct	gtaaatcttc	agtgtaaata	aaacagatgc	ccatttggtg	1080
gctgtttttc	attcataata	atgtctacat	tgaaaaattt	atcaagaatt	taaaggattt	1140
catggaagaa	ccaagttttt	ctatgatatt	aaaaaatgta	cagtgttagg	tattatttga	1200
atggaaagac	acccaaaaaa	aaaaatgtgc	tccgactagg	gggaaaacag	tagttccgat	1260
tttttcccat	tatttttatt	ttattttctg	gttgccctag	cttccccccc	tatttttggt	1320
tcttttatta	actagtgcac	tgtcttatta	aatcttcact	gtatttaattg	caggatgtgt	1380
gcttcagttg	ctctgtgtat	tttgatatatt	taatttagag	gttttggttg	ctttttgaca	1440
ctagttgtaa	gttactttgt	tatagatggt	atcctttacc	ccttcttaatt	atttttacagc	1500
agtacgtttt	tttgtaacgt	gagactgcag	agtttgtttt	tctatatgtg	aaggattaca	1560
acacaaaaag	ttatcctgcc	attcagatgc	tcagaactga	atgtttctgc	agatcttggt	1620
gcatttgtct	ctagtgtgat	atataaaggt	gtaattaaga	cagagttctg	ttaatctaat	1680
caagtttgc	gttagttgtg	cattagcagt	ataaaagcta	atatatacta	tatggtcttg	1740
caacagtttt	aaagcctctg	cataattgat	aataaaaaatg	catgacattc	ttgtttttta	1800
tagactttta	aaatcataat	tttaggttta	acacgtagat	ctttgtacag	ttgacttttt	1860
gacatagcaa	ggccaaaaat	aactttctga	atattttttt	cttgtgtata	agtggaaagg	1920
gcatttttca	catataagtg	ggctaaccac	tatttttcaa	agaacttcat	cattgtacaa	1980
ctaacaacag	taactagccc	ttaattatgg	tgacagttcc	ttattggtgt	gtgtgagatt	2040
actctagcaa	ctattacagt	ataacacaga	tgatcttctc	cacacacccc	atcaccacaga	2100
taattttacag	ttctgttaac	agtgaggttg	ataaagtatt	actgataaaa	aattatctaa	2160
ggaaaaaaac	agaaaattat	ttggtgtggc	catcttacct	gcttatgtct	cctacacaaa	2220
gctaaatatt	ctagcagtg	tgtaaatgaa	aattacatct	tactgttgat	atatgtatgc	2280
tctggtacac	agatgtcatt	ttgttgtcac	agcactacag	tgaaatacac	aaaaaatgaa	2340
attcatataa	tgacttaaat	gtattatatg	ttagaattga	caacataaac	tacttttgct	2400
ttgaaatgat	gtatgcttca	gtaaaatcat	attcaaattt	aaaaaaaaaa	aaaaaaaaaa	2460
ctcga						2465

<210> 207

<211> 1480

<212> DNA

<213> Homo sapiens

<400> 207

```

gaattcggca cgagctcaag ctggcaggtg gtcgggggag cggccggaga ggagctgccg      60
ggagttcgtg ccctgcagga catgacacca gtggcatatc acggccatgg ggtctcagca      120
ttccgctgct gctcgccct cctcctgcag gcgaaagcaa gaagatgaca gggacggttt      180
gctggctgaa cgagagcagg aagaagccat tgctcagttc ccatatgtgg aattcaccgg      240
gagagatagc atcacctgtc tcacgtgcca ggggacaggc tacattccaa cagagcaagt      300
aaatgagttg gtggctttga tcccacacag tgatcagaga ttgcgccctc agcgaactaa      360
gcaatatgtc ctctgttcca tcctgctttg tctcctggca tctggtttgg tggttttctt      420
cctgtttccg cattcagttc ttgtggatga tgacggcatc aaagtgggtga aagtcacatt      480
taataagcaa gactcccttg taattctcac catcatggcc accctgaaaa tcaggaaactc      540
caacttctac acggtggcag tgaccagcct gtccagccag attcagtaca tgaacacagt      600
ggtgaatttt accgggaagg ccgagatggg aggaccgttt tcctatgtgt acttcttctg      660
cacggtacct gagatcctgg tgcacaacat agtgatcttc atgcgaactt cagtgaagat      720
ttcatacatt ggcctcatga cccagagctc cttggagaca catcactatg tggattgtgg      780
aggaaattcc acagctattt aacaactgct attggttctt ccacacagcg cctgtagaag      840
agagcacagc atatgttccc aaggcctgag ttctggacct acccccacgt ggtgtaagca      900
gaggaggaat tggttcactt aactcccagc aaacatcctc ctgccactta ggaggaaaca      960
cctccctatg gtaccattta tgtttctcag aaaccagcaga atcagtgccct agcctgtgcc      1020
cagcaaatag ttggcactca ataaagattt gcagaattta atacagatct tttcagctgt      1080
tcttagggca ttataaatgg aatatcatac gtggttctag gttatcaaac catggagtga      1140
tgtggagcta ggattgtgag tgacctgcag gccattatca gtgcctcatc tgtgcagaag      1200
tcgcagcaga gagggaccat ccaaatacct aagagaaaac agacctagtc aggatatgaa      1260
tttgtttcag ctgttcccaa aggcctggga gctttttgaa aagaaagaaa aaagtgtgtt      1320
ggcttttttt ttttttagaa agttagaatt gtttttacca agagtctatg tggggcttga      1380
ttcacccctc atccattggc tggaaacatg attggggatt tgatagaaaa ataaaccctg      1440
cttttgattc aaaaaaaaaa aaaaaawaaa aaaaactcga      1480

```

<210> 208

<211> 872

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (422)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (847)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (856)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (872)

<223> n equals a,t,g, or c

<400> 208

```

cagtatttcc ctcagtactg taagcaaaag tggtagttt ttctttcttt atgtctactc      60
tgtcctctgt ggcttcttgg tgtacccttc tcttcttagc cattcagttc ctctagtcac      120
ctccctagta gctagtgtc tctaagttt tatttaatta gaacaactcc atttccattt      180

```

caaggtaggt	caatgggggg	aaaagcctca	tgattttaa	tgaagttaac	aacacagctt	240
ttaaaatgaa	aactcatact	ccaacttcta	aagtatat	gagctgattt	gtttccaaaa	300
caaagatatg	ctgtacctaa	aactgctaaa	acaaaaatat	aaagacaagg	actagggtgat	360
taaggggaga	gaaaaatcat	ytctttttcca	ggaaaccttt	gctaaaaataa	gcaaaacttg	420
antctatgct	tcatggaaac	tgacacaaaag	aaaagaaact	gatggattgc	acaggccttg	480
ttatagaaat	agatctataa	aaagatctgt	ccacaggaaa	tatacacctt	ctcctgggtc	540
tgaacttcaa	tggggatttg	tcacctaggt	ctccatctat	aggaatacct	tcacatacct	600
atctattcat	gcacatatct	tgaaaacagg	tacatacaaa	attacaacaa	aggaaaaaaa	660
ttctattgaa	cacttaaaaa	tagaaacagg	ccaggcacgg	tggctcatgc	tgtaatccca	720
acaatttggg	aggctgaggg	tggtggatca	cctgaggtca	ggagtgtgag	accagcttgg	780
ccaacatggg	gaaaccccg	cactactaaa	aatacaaaaa	aaattagcct	gtgtgggtggc	840
acactcntac	aatccnggct	gactcgggaa	an			872

<210> 209

<211> 1779

<212> DNA

<213> Homo sapiens

<400> 209

aattgccaag	actgcacaaa	attacagtgc	taatgtatat	ggttgcagtt	cacataaaga	60
caaaagcatc	tgttatgaaa	tgagtagtaa	tattgggtgg	ttgatttgtt	cttagcagac	120
ttggcttcat	wtgggtcttg	agataaaatg	gccagcataa	atgctgttta	tattcacgtt	180
ttcctaggtg	tgtgtgtgca	ggccacagca	gcatgccctt	gggtgagtca	gtgccgaaas	240
gggtctgttc	cttcttgagc	ctgcctgcag	ggatgggtctc	cttttaaaagc	aggttgtgtg	300
cagcattcag	tacactgaag	gtaagctaaa	ccatcaacat	ctctgggtgtt	ttaagatgtt	360
attttatttg	aacaactgac	aatgagggga	tgtagctttt	gtggcagaat	tccttgcagt	420
tgtgataact	gatcttgttt	tatttttttg	cattgcaact	gtggcatagt	tacaatttct	480
gtttgkktat	cacattttaa	attggragag	aacgcgcttg	akggatagag	cgccttcagk	540
gtactgtttc	ttattaactt	tacttttttt	aaatcaactt	gctatagact	ttatatacat	600
tttggttaaat	atagtttcta	gtgacataga	aacgatgcgt	agtttttcatt	tactaattac	660
aatgtttgag	gcctaattct	gaaagtcctc	atattttaaag	gctagacaac	gtaatgaaat	720
ttttaactat	ttgtatgtca	ttttgaaagt	gtactgcttt	atggtaaaaag	tgttttttcat	780
ttgttcattg	ttttcattat	ttgtgatcat	gttgcttttc	aatacaggca	taaaccttcc	840
actcttgaag	aaagcagctg	cttttttaaaa	gcggtaattg	cttctttacc	ttttatttct	900
tttgtaaatg	aagcttttct	ttaagaatgt	gacttttaaag	tgttgtctat	tgcataaaac	960
agttgacact	cacttattgt	aaagtgaaga	ttgttctact	gcatgtgaag	tggaccatgc	1020
agatttctgt	atgttctcag	tatgcattac	tagataataa	agtcttttgt	gaacaaggca	1080
tttgtagcca	tttttaaaaag	tttttgtctt	cagtgtgtgt	aagtcaggta	aaccataaat	1140
agttaaaagc	aaccttttgt	ttttttctctg	aaagttttta	attgaaaagta	ttattagtta	1200
aagatgtaaa	cctagccaaa	attaccagtt	tattaataat	taggatcccta	attatttcaa	1260
aaaatcctac	aaatattgtc	agcttttcagt	gtagtggat	tattcctgtg	ggttatgggg	1320
tataattcag	gatttaacta	atgtttctgc	tattttctca	cttttctctt	tgatgggtgcg	1380
gaaagagaaa	aaggaaaacg	gggcacaggc	cattcgacgc	cttctccaag	gggtctgatt	1440
tgctgagaca	ccagcttcac	cttcttaaca	aggcacctaa	ttacaacaag	catgcacatt	1500
ttggtgcatt	caagaatgga	aaatcagaat	agcagcattg	attcttctgg	tgcagctcag	1560
tggaagatga	tgacaaccag	aagacatgag	ctaagggtaa	gggactgttc	tgaagaacct	1620
ttccatttag	tgatcaagat	atggaagctg	atttctgaaa	atgctcagtg	tgtactctaa	1680
ttattttatgg	taccatttga	attgtaaactt	gcatttttagc	agtgcattgtt	tctaattgac	1740
ttactgggaa	actgaataaa	atatgcctct	tattatcaa			1779

<210> 210

<211> 2110

<212> DNA

<213> Homo sapiens

<220>

J000436601.120701

caaggtaggt	caatgggggg	aaaagcctca	tgattttaa	tgaagttaac	aacacagctt	240
ttaaaatgaa	aactcatact	ccaacttcta	aagtatat	gagctgattt	gtttccaaaa	300
caaagatatg	ctgtacctaa	aactgctaaa	acaaaaatat	aaagacaagg	actaggtgat	360
taaggggaga	gaaaaatcat	ytcttttcca	ggaaaccttt	gctaaaaata	gcaaaacttg	420
antctatgct	tcatggaaac	tgacacaaag	aaaagaaact	gatggattgc	acaggccttg	480
ttatagaaat	agatctataa	aaagatctgt	ccacaggaaa	tatacacctt	ctcctggttc	540
tgaacttcaa	tggggatttg	tcacctaggt	ctccatctat	aggaatacct	tcacatacct	600
atctattcat	gcacatat	tgaaaacagg	tacatacaaa	attacaacaa	aggaaaaaaa	660
ttctattgaa	cacttaaaaa	tagaaacagg	ccaggcacgg	tggctcatgc	tgtaatccca	720
acaatttggg	aggctgaggc	tggtggatca	cctgagggtc	ggagtgtgag	accagcttgg	780
ccaacatggt	gaaaccccg	cactactaaa	aatacaaaaa	aaattagcct	gtgtgggtgg	840
acactcntac	aatccnggct	gactcgggaa	an			872

<210> 209

<211> 1779

<212> DNA

<213> Homo sapiens

<400> 209

aattgccaa	actgcacaaa	attacagtgc	taatgtatat	ggttgcagtt	cacataaaga	60
caaaagcatc	tgttatgaaa	tgagtagtaa	tattgggtgg	ttgatttgtt	cttagcagac	120
ttggcttcat	wttggtcttg	agataaaatg	gccagcataa	atgctgttta	tattcacggt	180
ttcctaggtg	tgtgtgtgca	ggccacagca	gcatgccctt	gggtgtagtca	gtgccgaaas	240
gggtctgttc	cttcttgagc	ctgcctgcag	ggatgggtctc	cttttaaagc	aggttgtgtg	300
cagcattcag	tacactgaag	gtaagctaaa	ccatcaacat	ctctgggtgtt	ttaagatggt	360
attttattgg	aacaactgac	aaatgagggg	tgtagctttt	gtggcagaat	tccctgcatg	420
tgtgataact	gatcttgttt	tatttttttg	cattgcaact	gtggcatagt	tacaatttct	480
gtttgkctat	cacatttaaa	attggragag	aacgcgcttg	akggatagag	cgccttcagk	540
gtactgtttc	ttattaactt	tacttttttt	aaatcaactt	gctatagact	ttatatacat	600
tttggttaaat	atagttccta	gtgacataga	aacgatgcgt	agttttcatt	tactaattac	660
aaatgttgag	gcctaattct	gaaagtcctc	atattttaaag	gctagacaac	gtaatgaaat	720
ttttaactat	ttgtatgtca	ttttgaaagt	gtactgcttt	atggtaaaag	tgtttttcat	780
ttgttcattg	ttttcattat	ttgtgatcat	gttgtctttc	aatacaggca	taaaccttcc	840
actcttgaac	aaagcagctg	cttttttaaaa	gcggtaatgt	cttctttacc	ttttatttct	900
tttgtaaatg	aagcttttct	ttaagaatgt	gactttaaag	tggtgtctat	tgcataaaac	960
agttgacact	cacttattgt	aaagtgaaga	ttgttctact	gcatgtgaag	tggaacctgc	1020
agatttctgt	atgtttctcag	tatgcatcac	tagataataa	agtcttttgt	gaacaaggca	1080
tttgtagcca	tttttaaaaag	tttttgtctt	cagtgcctgg	aagtcaggta	aaccataaat	1140
agttaaaagc	aaccttttgt	ttttttcctg	aaagttttta	attgaaagta	ttattagtta	1200
aagatgtaaa	cctagccaaa	attaccagtt	tattaataat	taggatccta	attatttcaa	1260
aaaatcctac	aaatatgtgc	agcttttcagt	gtagtggatg	tattcctgta	ggttatgggg	1320
tataattcag	gattttaacta	atgtttctgc	tattttctca	cttttccttt	tgatgggtgcg	1380
gaaagagaaa	aaggaaaacg	gggcacaggc	cattcgacgc	cttctccaag	gggtctgatt	1440
tgctgagaca	ccagcttcac	cttcttaaca	aggcacctaa	ttacaacaag	catgcacatt	1500
ttggtgcatt	caagaatgga	aaatcagaat	agcagcattg	attcttctgg	tcagctcag	1560
tggaagatga	tgacaaccag	aagacatgag	ctaagggtaa	gggactgttc	tgaagaacct	1620
ttccatttag	tgatcaagat	atggaagctg	atttctgaaa	atgctcagtg	tgtactctaa	1680
ttattttatg	taccatttga	attgtaaact	gcatttttag	agtgcatgtt	tctaattgac	1740
ttactgggaa	actgaataaa	atatgcctct	tattatcaa			1779

<210> 210

<211> 2110

<212> DNA

<213> Homo sapiens

<220>

10004360.120701

[illegible]

atcttggtcag	tccctggcct	gtggggcggt	ctcaggaagt	ggcatgctct	tcamgragga	300
tcgttcatyt	ccagtataac	cawtttggtta	ataatagttg	ataattccca	gcttttacca	360
gatgattttt	gacttatttt	tcctcctttg	acctgttcaa	agctaacata	tctcggtcag	420
ttcggagagg	gtgggggatt	tgagaatgtg	aggaggagtg	gggttagaat	gggtttgcct	480
atctgggcaa	ggaaagagtt	cctagtcgat	tgggcacaa	gacaaaatga	ttccatggat	540
agaatcgccc	catgttgctg	gaacacctca	cgtgttggtg	acgccttaaa	ttcctgccat	600
ccctttctctg	attccccacc	tcctgttagt	ttccacagga	tttatctctc	tgtacccccg	660
tcctccaact	ctactctgtc	agcctctcct	ccatccctta	cttcccttct	aaattccagg	720
agatgacctc	actttgcaaa	gcaaattgga	gccaccaa	tgtagctctc	ctcgggtggaa	780
actgcatctg	tgctcatccc	tgcaccttct	tgcagaaagc	cgccccctca	ggccaagatg	840
agtgcctggc	ccccatggga	gactcagaca	ctttgacccc	ttgtgacttc	agcatctccc	900
tcttttaaaga	ttctctccca	acattcagtc	gtgctcga			938

<210> 212
 <211> 1551
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (420)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1017)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1408)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1423)
 <223> n equals a,t,g, or c

<400> 212	
aggctggact	aagcatagag aaccaggaga gaaagaaaga ttttaagagac tgagtaatat 60
tttttgacag	atcattttaag aaactgagta attttttttt tctccaaaag ggcatgggtt 120
ttttttttgt	tttggtttttt ctctatttgg cactttctag ggattggtct ataaattttt 180
tgaaagatca	taggataaat ttctttgttag caacttccta ttttagtggt tatggttaggg 240
garccccarg	tgtccctgct gatacgccat tagggccact tctcagcctc tggctacatc 300
ataatgcttt	tttttctatc ttgccaagt ttccmgaaaa ttkakgtttt ctaattttta 360
aaaaattggg	tgtggagatg ggatgggacc tctttataag cctgaaaat aagtgatttn 420
ttttaagtgc	tattctgcta taaacctgat tctcactttt ttctgtagac aacagttttt 480
tataatatat	ctattttgtg tggacattat ttctttttaa ccaatactga aattccatag 540
tgtawacttt	ctccacatct tctttgatta atacttyctt aaaatagaca cttggattgg 600
caccagctgt	caccaataaa gctgccctga acattgtcaa tcaatcctgt taaccaatct 660
gagaattttt	ctggaatgct tagttaggga tgaaattgct gggttatagg tatgagtatg 720
cttgatatac	ttttctccag aatgtctaca cctgtgtgta caccacatct ccagagatag 780
gggaatctta	tgteccctgt aactgctctc gttattttaa tttctgacat ttgccgccgc 840
cgccgcccc	tgcccccaac acacacatgg tataaagtgg tagtttcttg ttttaaatgt 900
aaactttgaa	tgatttgaat ttgggcattt ctttgtatcc tgagttattt tgggttcccc 960
ttatgtgaat	atccttttcc tatgctttta ctacttttct aatttgtccc ttttttnggt 1020
tatcaaattc	caggccattg tctattccat cgtcactttt gggttattgga aacatctttc 1080

10004860.120701

cattctgtag	cctgtctgtt	gaacataaat	cttgatTTTT	atgtaatcag	atTTTTctcc	1140
ttacggttat	gttcttgga	ttttatTTaa	gaaatctTTT	tctatcctga	gaccacaaaa	1200
atgtcccccac	cattttcttc	tgtttcatag	ttttgccttg	tatgtttaat	cctttaaggc	1260
atgtgtagtt	cattttatat	ggtgtgaaat	agttcttatt	catttattca	acacatattg	1320
gtggagtgcc	tgctgatggg	agtactcttc	agagtacttt	gtatatattt	gtgaacacat	1380
attcttgccc	tggaagctta	tgttgcntt	caaggtagat	cctactcgg	tttccacctg	1440
ttttcttcag	ccctcaggat	gaattccaca	atTTtacaca	tagcaccagt	taaggaatag	1500
gctttatttg	agaaaaggaa	ggcttattag	accagcatca	gcaaaaaaaa	a	1551

<210> 213

<211> 997

<212> DNA

<213> Homo sapiens

<400> 213

agagagtcct	caacagaacc	taatcatgct	ggcaccctaa	tctcatactt	ctagcctcca	60
gaactgagag	aacataaaact	ccagttgttt	aagctaccca	gtctatggta	tttgttatta	120
tagcccaagc	taagtcagggt	ggaaaggcag	aaatattttg	agaagartca	tttctacaaa	180
aacagagttg	ttctaaatga	aatggccaga	tatttcatct	tcttcatact	agtatttatg	240
aaagtttcat	taaacaccac	ttggccagca	cccaggcctg	ccaccctcag	aacggcaaac	300
aaaagcaaat	gatttgagga	acaaaagagt	ggacacagag	cctctcagaa	gatggctcca	360
tcttctgaga	tgatcttctg	agatcatcaa	ttttctgcac	ctgatgtcct	actccaattg	420
tagtagataa	gagcaaagac	acttcctgat	cctgtggaaa	atgctggagc	cctgctgatg	480
gagaggctga	cactgggacc	aacagaaggc	cggacattta	tttgctgcag	cccttctgca	540
cctgggccct	cttcaggcct	tgtaccttgc	actccccatg	ccactgtagc	acctggtaag	600
ctgaagttag	gtatttgaag	agataatttg	cccccaacaa	agaattactt	aaaagaaaaa	660
ggaaaccact	aaattccact	tgacaaacca	gtttgttcag	ttttgacttt	tgcaaatttg	720
aaactttctc	tttggcacca	tatgattctg	ttacattagg	gctcatcaat	gctaagatac	780
acagctaggt	ctaccagctg	ccagtggtca	agaatgaaa	aacctctcag	agagagatca	840
gtttcttaata	acctaacagt	tttccttggs	tattacmaaa	aaaaaaaaaa	ttagaataaaa	900
atgtcagtg	catgcaggca	agtacagata	tggaaatgaa	agctctgtct	acaactgcaa	960
gatttgtttg	ttataaaaat	tgattgggat	cactcga			997

<210> 214

<211> 1496

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (451)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1485)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1492)

<223> n equals a,t,g, or c

<400> 214

gaattcggca	cgagtgacca	cagatatctt	tggctttcag	cctcaccaca	atgctgtcca	60
ctatgttttt	tttaatcgat	tgacatctca	tgaatccaca	aatttagccg	cttttccatc	120
ttttccatct	ttgtcatagc	ttcatcacgc	acgatggagg	tcacttcagc	actatccgga	180
gcggcctcac	ggacagatcr	gtgaatttcc	ttttcctttt	tcttgatgta	ccggattgtc	240
gactcgttaa	cattgagctc	atggccaaca	gcactgtaac	tcatgcctga	ttggagctta	300
tccaacacgc	ggamtttctc	cgtaaggsam	atcamggctc	tctttcgctt	aggaacactg	360
ggcararctt	aarcactacg	cttggggggc	attttagaaa	gcaaaaccac	ccacaaaaag	420
cagaaaaaaa	agtgtcagta	aacagactgn	nganaggact	ctttgtttac	agcacaggag	480
ctgcgactag	aaggcggcgc	ttctccccag	ttcaaacttc	agctgggaac	cttacctccg	540
ccaactccaa	attttccacc	tctgcgcacg	cccgggaaas	aaacccccag	aacagtaccg	600
tgatgattga	ttttagggtt	acaaatacat	tttagcaagt	aagtgaattt	ggcattacga	660
attaatgatt	aatgaaggct	acctgtatct	ccatagatat	gtaattttat	ttaagcagggt	720
ttattatatt	aaggcggsa	ggcagcgccg	aagactacaa	gttccagcat	gcaccgcgct	780
cgggcggtt	cgggctccca	gcgagggctt	cagggacgcc	agcccggagg	catcggccgg	840
aagtgtcgta	gggcaaccac	gtagtactct	ctgcgcatgt	gcaaagcgct	gtcggggggc	900
gccctagctg	ccgtcgccgc	cgccggggct	ctatggtctc	tccctagagc	tttgccgttg	960
gaggcggtg	ctgctggtct	gtgagtttga	ccagcgctga	gcggcagcaa	catggaggaa	1020
ttcgactccg	aagacttctc	tacgtcggag	gaggacgagg	actacgtgcc	gtcgggtgag	1080
cgattccgcc	tgaggcgaga	agcgaattgc	cccgcceccac	gcctcacgtg	aggcgcgctc	1140
tgcccccgcg	ggcgtctgcc	ctgtggccca	ggtgggtccag	gggggctcct	gttctcgagc	1200
gtccgctccc	tcaggccctt	catcctcggc	cgctccggcc	cgaggcgtgt	gcgcgtggcg	1260
gttctgtgct	cccctcccgt	tgggcagctc	cgcccgccgc	cccctcttgc	agcgcgggaa	1320
cggcacatgg	acacggcccc	ttgtcgctag	ggacgctcgt	cggtcagccc	cgaacgacaa	1380
cgctgcttca	gaagtcgggg	cggcagttcg	agccttggaa	gtttttttca	gccctggccc	1440
gagagagctg	ctggccaaca	accggtccaa	gatagagctg	tccgntctcc	gnctgg	1496

<210> 215

<211> 1308

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1241)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1247)

10004560-120701

<223> n equals a,t,g, or c

<400> 215

ttggcancng	ggagagggaa	agaggaggaa	atggggtttg	aggaccatgg	cttacctttc	60
ctgcctttga	cccatcacac	cccatttcct	cctctttccc	tctccccgct	gccaaaaaaa	120
aaaaaaaaagg	aaacgtttat	catgaatcaa	cagggtttca	gtccttatca	aagagagatg	180
tggaaagagc	taaagaaacc	accctttgtt	cccaactcca	ctttacccat	attttatgca	240
acacaaacac	tgtccttttg	ggcccttttc	ttacagatgg	acctcttgag	aagaattatc	300
gtattccacg	tttttagccc	tcaggttacc	aagataaata	tatgtatata	taacctttat	360
tatttgctata	tctttgtgga	taatacattc	agggtgtgct	gggtgattta	ttataatctg	420
aacctaggta	tatccttttg	tcttcacacg	tcagtgtgag	gtgggctccc	tggtatggta	480
aaaagccagg	tataatgtaa	cttcacccca	gcctttgtac	taagctcttg	atagtggata	540
tactctttta	agtttagccc	caatataggg	taatggaaat	ttcctgccct	ctgggttccc	600
catttttact	attaagaaga	ccagtgataa	tttaataatg	ccaccaactc	tggcttagtt	660
aagtgagagt	gtgaactgtg	tggcaagaga	gcctcacacc	tcactagggtg	cagagagccc	720
aggccttatg	ttaaaatcat	gcacttgaaa	agcaaaccct	aatctgcaaa	gacagcagca	780
agcattatac	ggtcactctg	aatgatccct	ttgaaatttt	ttttttgttt	gtttgtttta	840
atcaagcctg	aggctgggtg	acagtagcta	cacaccata	ttgtgtgttc	tgtgaatgct	900
agctctcttg	aatttgata	ttgggtatct	tttatagagt	gtaaaccaag	ttttatatct	960
tgcaatgcga	acaggtacct	atctgtttct	aaataaaact	gtttacattc	attatggggg	1020
atgtatgacc	ttcattttcc	aagaaataga	actctagctt	agaattatgg	atgctctaaa	1080
atgtcagaat	gggaactctc	ctcgaagtcc	tcccaaactc	agagacagca	ctgccttctc	1140
ctaaatgatt	attcttttct	ccctgttttc	tggtattttc	taggcacctc	tctcaccaca	1200
gccataaccc	tttttactct	ccattaggcc	gtataactgg	ngggacngct	ggtcgggtata	1260
taatactggg	wccaacamag	gggttctgga	tgtacacmag	gttatctt		1308

<210> 216

<211> 1705

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1281)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1704)

<223> n equals a,t,g, or c

<400> 216

tggccatgga	agcgctagaa	ggtttagatt	ttgaaacagc	aaagaaggat	ttccttggat	60
ctggagaccc	caaagaaaca	aagatgctaa	tcaccaaaca	ggctgactgg	gccagaaata	120
tcaaggagcc	caaagccgcc	gtggagatgt	acatctcagc	aggagagcac	gtcaaggcca	180
tcgagatctg	tggtgacct	ggctgggttg	acatgttgat	cgacatcgcc	cgcaaactgg	240
acaaggctga	gcgcgagccc	ctgctgctgt	gcgctaccta	cctcaagaag	ctggacagcc	300
ctggctatgc	tgctgagacc	tacctgaaga	tgggtgacct	caagtccctg	gtgcagctgc	360
agtggagacc	cagcgctggg	atgaggcctt	tgctttgggt	gagaagcatc	ctgagtttaa	420
ggatgacatc	tacatgccgt	atgctcagtg	gctagcagag	aacgatcgct	ttgaggaagc	480
ccagaaagcg	ttccacaagg	ctgggcgaca	gagagaagcg	gtccaggtgc	tggagcagct	540
cacaaacaat	gccgtggcgg	agagcaggtt	taatgatgct	gcctattatt	actggatgct	600
gtccatgcag	tgccctcgata	tagctcaaga	tcctgccag	aaggacacaa	tgcttggcaa	660
gttctaccac	ttccagcggt	tggcagagct	gtaccatggt	taccatgcca	tccatcgcca	720
caçggaagat	ccgttcagtg	tccatcgctc	tgaactctt	ttcaacatct	ccaggttcct	780
gctgcacagc	ctgcccgaag	acacccctc	gggcattctc	aaagtgaana	tactcttcac	840
cttggccaag	cagagcaagg	ccctcggtgc	ctacaggctg	gcccggcacg	cctatgacaa	900

10004560-120704

```

gctgcgtggc ctgtacatcc ctgccagatt ccaaaagtcc attgagctgg gtaccctgac      960
catccgcgcc aagcccttcc acgacagtga ggagttgggtg cccttgtgct accgctgctc      1020
caccaacaac ccgctgctca acaacctggg caacgtctgc atcaactgcc gccagccctt      1080
catcttctcc gctcttctcc acgacgtgct acacctgggtt gagttctacc tggaggaagg      1140
gatcactgat gaagaagcca tctccctcat cgacctggag gtgctgagac ccaagcggga      1200
tgacagacag ctagagatctt gcaacaaca gctcccagat tcttgcggct agtgggagac      1260
caagggactc catcggagat naggaccctg tcacagctaa gctragcttt gagcaagggtg      1320
gctcaragtt cgtgccagtg gtgggtgagcc ggctgggtgct gcgctccatg agccgcgggg      1380
atgtcctcat caagcgatgg cccccacccc tgaggtggca atacttccgc tactgtctgc      1440
ctgacgcctc cattaccatg tgcctcctct gcttccagat gttccattct gaggactatg      1500
agttgctggt gcttcagcat ggctgctgcc cctactgccg caggtgcaag gatgacctg      1560
gcccattgacc agcatcctgg ggacggcctg caccctctgc ccgccttggg gtctgtgagg      1620
ctgtgaagga gaataaagag ttaactgtc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      1680
aaaaaaaaaa aaaaaaaaaa aaana                                     1705

```

```

<210> 217
<211> 999
<212> DNA
<213> Homo sapiens

```

```

<400> 217
agcaaatcac cttaacgata tggaaatgaaa ctgtgaccag tgccgcctctg ggtgggtctg      60
gagagactgc cgtcttcttg tttggccata ggtgctgggg ccccggttc agtcaactgtc      120
tcagacagka gtcccgataa gcagatcacc agtccctccac tgctcttctg gtcggccttg      180
ctgcatgaga agatagctgc ttctccctc ttttcttaca ctgtaaatta ttgttttaca      240
attgagtgyt ttaataatag tytacaaata ctatgtatct atgcaaaact gttaaagtct      300
tcatctgtta tgattggata cttggtcttg tcagtagtgg tcagcattgg gttgtgagct      360
tgctctactc catacgtgtt tatcctgcta tgcattttac attgtgtgtt cacatctatt      420
ccaaggagcc ttgctagaaa caacactggc ggttccctgca ggccaggcag gcattggccc      480
atgctgtgtc ccataggagc caatggaaag aacgtagctt ggtctgctag ccagccgtgg      540
ggtggcgcag gccaggcagc ctctgcacca gagtccagca cctgcccatt cccagctcac      600
acaatcatac tcttctttca tagagatctt attaccacct agaccacct agttttctctc      660
tctgttagtg tcttgagctc ttttgcaaca aaatgtaggt acagaccaat cctgtccct      720
tccccaatca ggagctccac accatgagtt gtttggtttt ccagaagctg ccagtgggtt      780
cccgtaatt gcgttaagat atcgatgatk ttttttattg tttttcttct tgttttttta      840
aataatatat ttaaaggcag tatcttttgt actgtgaatt tgcagtagaa gatgcagaat      900
gcactttttt tttacttctg ttggtgtgta ttgtatatag tgtgtgtgct tcttgtgatg      960
aaaataaact ttttctttat aaaaaaaaaa aaaaaaaac                                     999

```

```

<210> 218
<211> 941
<212> DNA
<213> Homo sapiens

```

```

<400> 218
ggcagcagta gcatttcatt taatctgcag gtatattctc ccaacagttt attgtcatgt      60
gatgtcctca gccaaagattg traggcagag aggagctgtc ccaacctact ataccaccga      120
ggctggagag atcataatctt tggattataa ctggagtctc tccatccttc acattgttga      180
tgtcctctgt agcaaaccgg aaaagtcagt gacagaagat gccgctagcg gtttgagcca      240
gagaatgaca gctctgggtt ggagaaaagg gccggatggg ggctctagaa agcccatcct      300
tctgtctctc tttttctctc cctttatatt gtgctttcat tcattcatte attcatcaaa      360
catttggtga gcacctatta tgtgtcaagc tctgtgctag cctctggaaa acctgccctc      420
atgtagctca ctgtggagta ggagaaacaa tgactacact atgataagca cgggttgtca      480
gggtctcaca gagcagtggc cctcatcca gaccgatgag gtcaaagaag gcatccaggc      540
gaggatgggt tcagagctaa ctgaagaatg agagggagct gcaccascag ggggttggaa      600
tgaagggtggc agtgccctgga gtcttgattc cagcagaggg agagcagctc gtgaaaaggc      660

```

accaaggggtg	ggagaggggca	gagcacatgg	aggaacttca	ggtagttctg	gatggcscctg	720
gggcaaaagct	agagaggttaa	gaagaatcta	caaagtgtcc	tcgagttaca	tgaacttcca	780
tcccaataaaa	cccattggaa	acgaaaaaatt	taagtcagaa	gtgcatttaa	ggctgggtccg	840
agtagaatga	ttttttacaac	gaattgatca	caaccagtta	cagatgtctt	tgttccttct	900
ccactcccac	tgcttcacct	gactagcctt	taaaaaaaaa	a		941

<210> 219

<211> 575

<212> DNA

<213> Homo sapiens

<400> 219

taagtgggaat	cccccggggt	tgcagggaat	tcggcacgag	gcattctgag	aagcttaaga	60
catactttga	agacaaccct	agggacctcc	agctgctgcg	gcatgaccta	cctttgcacc	120
ccgcagtgg	gaagccccac	ctgggccatg	ttcctgacta	cctgggttcc	cctgctctcc	180
gtggcctgg	rcgccctcac	aagaagcgga	agaagctgtc	ttcctcttgt	aggaaggcca	240
agagagcaaa	gtcccagaac	ccactgcgca	gcttcaagca	caaaggaaa	aaattcagac	300
ccacagccaa	gccctcctga	ggttgttggg	cctctctgga	gctgagcaca	ttgtggagca	360
caggcttaca	cccttcgtgg	acaggcgagg	ctctgggtgct	tactgcacag	cctgaacaga	420
cagttctggg	gccggcagtg	ctgggccctt	tagctccttg	gcacttccaa	gctggcatct	480
tgcccttga	caacagaata	aaaaatttag	ctgccccaaa	aaaaaaaaaa	aaaaaaaaaa	540
ctcgaggggg	ggcccggtacc	caattcgccc	tataa			575

<210> 220

<211> 3018

<212> DNA

<213> Homo sapiens

<400> 220

gccagcctta	caggttttac	gtgaaatgaa	agccattgga	atagaaccct	cgcttgcaac	60
atatcaccat	attattcgcc	tgtttgatca	acctggagac	cctttaaaga	gatcatcctt	120
catcatttat	gatataatga	atgaattaat	gggaaagaga	ttttctccaa	aggaccggga	180
tgatgataag	ttttttcagt	cagccatgag	catatgtca	tctctcagag	atctagaact	240
tgcctacca	gtacatggcc	ttttaaaaa	cggagacaac	tggaattca	ttggacctga	300
tcaacatcgt	aatttctatt	attccaagtt	cttcgatttg	atattgtctaa	tggaacaaat	360
tgatgttacc	ttgaagtgg	atgaggacct	gataccttca	gcctactttc	cccactccca	420
aacaatgata	catcttctcc	aagcattgga	tgtggccaat	cggctagaag	tgattcctaa	480
aattttgggaa	agatagtaaa	gaatatggtc	atactttccg	cagtgcacctg	agagaagaga	540
tcctgatgct	catggcaagg	gacaagcacc	caccagagct	tcaggtggca	tttgctgact	600
gtgctgctga	tatcaaatct	gcgtatgaaa	gccaaccct	cagacagact	gctcaggatt	660
ggccagccac	ctctctcaac	tgtatagcta	tcctcttttt	aagggtctggg	agaactcagg	720
aagcctggaa	aatgttgggg	cttttcagga	agcataataa	gattcctaga	agtgcgttgc	780
tgaatgagct	tatggacagt	gcaaaaagtg	ctaacagccc	ttcccaggcc	attgaagtag	840
tagagctggc	aagtgccttc	agcttaccta	tttgtgaggg	cctcaccag	agagtaatga	900
gtgattttgc	aatcaaccag	gaacaaagg	aagccctaag	taatctaact	gcattgacca	960
gtgacagtga	tactgacagc	agcagtga	gcgacagtga	caccagtga	ggcaaatgaa	1020
agtggagatt	caggagcagc	aatggctctca	ccatagctgc	tggaatcaca	cctgagaact	1080
gagatatacc	aatatttaac	attgtttaca	agaagaaaag	atacagattt	gggtgaatttg	1140
ttactgtgag	gtacagtcag	tacacagctg	acttatgtag	atttaagctg	ctaatatgct	1200
acttaaccat	ctattaatgc	accattaaag	gcttagcatt	taagtagcaa	cattgcgggt	1260
ttcagacaca	tggtgaggtc	catggctctt	gtcatcagga	taagcctgca	cacctagagt	1320
gtcgggtgagc	tgacctcacg	atgctgtcct	cgtgcgattg	ccctctcctg	ctgctggact	1380
tctgcctttg	ttggcctgat	gtgctgctgt	gatgctggtc	cttcactcta	gggtgttcagt	1440
cagtcttaac	acagttgggg	ttgggtcaat	agtttcccaa	tttcaggata	tttcgatgtc	1500
agaaataacg	catcttagga	atgactaaac	aagataatgg	cagtttaggc	tgcaaacctg	1560
gtaaaatgac	tgtagataaa	tgttgtaatt	agtgtacacg	tttgtatttt	tgtaaatata	1620

70004350.120701

gcccgtgcc	tagtcttcta	acttgaacag	ccatgaatgt	tccatgtctc	cctttttttt	1680
ttgtctatag	ctgttaccta	tttttagtgg	tgaatgaga	gctagtgtatg	acagaaggat	1740
gtggaatgtc	ttcttgacat	catttgtgtat	tgctggtaat	caagttggta	acgactactt	1800
ctagcagctc	ttaccactat	gacttaagt	gtcctggaag	gcagtaagt	gaggtttgca	1860
gcattcctgc	cttcatgagg	gcttctacca	ctgaccactt	tgcacgtacc	tggctcccag	1920
atttacttag	gtacccacg	agtcgtccac	ataagcagct	tcatctttac	cttgccagag	1980
ttgacaatta	tgggatactc	tagtctactt	atacttgtgt	tcccatctgt	ctgcatcct	2040
ctgaaggcca	ggaccagtc	atacatcctt	agaaacaaa	gtatggtttt	tgttttctct	2100
tggaatgtca	ggtcttaagg	catttaattg	agggacaaaa	aaaaaaaaa	gccgatatag	2160
tagctagcta	cttaagcatc	catgggtatt	gctccatata	aaagcagatt	tgcaggacag	2220
aaagagtaaa	ttagccttca	gtcttggttt	acagcttcca	aggagagcct	tggscacctg	2280
aaatgttaac	tgggtccctt	cctgtctcta	gttcatcagc	acctgcagat	gcctgactct	2340
tgtagcctt	actattcaat	acagtcctta	gattcacggt	atgcctcttc	ctatccaggc	2400
acctattctg	aatcaccatg	ttgctctgca	gctagagtgt	ataggagaaa	atccatttgg	2460
gtagatggcc	tatgaatttg	tagtagactt	tcaaatgag	tgatttggtta	gcttggtact	2520
tttaagtttg	tggtagacat	cctccaaacc	catactctga	gcaattaact	gccttgaaca	2580
tagagaaaa	ttaaggcctc	acaggatgag	tctccattct	ctgtaaatgc	ttattttatc	2640
atagtcttta	gcctctaact	atgagtaaaa	tggtctcttc	ggccgggtgt	ggtgactcac	2700
acctgtaacc	tcagcacttt	gggaggcaga	ggtgggagga	tcacttaggt	ccaggagtgc	2760
gagactagcc	tgggcaacat	agtgagacac	cggatctaca	aaaaataaaa	aagccagact	2820
ggtggtatgt	atctgtgtcc	cagetaattg	ggagggtgag	atgggaggat	tgtttgagcc	2880
taggagaggg	aggttgcagt	gagccgtgat	cgcaccactg	cactccagcc	tgggcaacag	2940
agcaagaccc	tgtcttgagg	aaaccagaat	tttggaagag	caaattggggc	tgagtgcagt	3000
ggctcatgcc	tgtaatcc					3018

<210> 221

<211> 2031

<212> DNA

<213> Homo sapiens

<400> 221

aggatatgca	tgattcttaa	ccaggctata	tgtaaaaaa	aaattggaaa	atgcaatata	60
ttttttatta	tacaaactac	agaatgagta	tgcaagtttt	atztatcaaa	atgtaattgga	120
tttttaaaag	ctgagaaatt	ttcettatac	ctaccttttc	agttatttta	attataccaa	180
attatcaact	agaatagctt	catccatatg	aaatataaaa	tgaagagaca	cctaggctct	240
atcaggctta	ggattctttg	aacttatttc	cactttaatt	tctcagtggg	agttaagagg	300
ggtgagaaaa	caaagaaggg	gaaaaactga	caactaacaa	aaccagcacc	acatcgctag	360
gtggtgctta	ctaattacct	tctcaggatt	ttcctcagat	tgaaaagctt	atgaggattt	420
cttggggagtc	ttaataacct	gcctgttagt	acagagcttt	cctgatgata	tttactcttg	480
agcacatgtg	gttgtaaaac	cttaactttc	tttctccagg	agggtggtga	tagaaacaga	540
tggtagtatt	tatgaactga	tgttctcgtg	aaatggtgag	ggtggggaga	aaagacttta	600
agggaggaga	gccatctatt	ttgttcctaa	agccacctct	cagcagaatc	gtcatgtttt	660
tctgatgcac	cgctctgctt	catgcccaag	atgacttgcg	aggcaatctc	aggagctgtg	720
gacttaaccr	ttgcaaagca	cactgtcttt	ctcagcgttc	tctgcaagtc	agtaggtgtt	780
agtatggttg	caaagttcac	tgtctcagca	aagttgaact	gggctacctc	tctacagctg	840
tttcttcaga	gggaaaaatc	ttgagaccag	atgggtggagc	tctggagtca	gaggaaatgg	900
gtgtcttcag	cacaaagctg	ctgcttttac	ttcagccact	tctgacattt	ttacataaccg	960
agccttgagat	trtgtgatta	tctcaaatca	aatcactttg	atggagataa	ataatcaaaa	1020
ctgttttata	gtcattgatt	tggtgagaac	agtaattgga	aatgggtgtt	aaggacttct	1080
cattttttgga	gctttctctc	cagagtcttg	gctgatttgt	gttcgctgtt	catctgagcc	1140
cccaaaagca	ttattactga	tacttgcaca	cagtcaaaag	cgcagactgg	atggatggtc	1200
ttttataagg	catttaaggg	tacactactg	tgtttactct	accatacatt	tttcttagcc	1260
cctcaagtaa	tatagcacag	agttatgaat	gacaattccc	ctaaccattc	ctcttcatat	1320
ctgcctcttc	cccttaccat	cgtaattctc	caaactgggtc	ataaaggcac	tctgtgaaga	1380
tattggggac	tgacatctta	agctctcacc	tggctgcagt	aggaaaggcc	aaactgacga	1440
caaaaaaaaa	attctttata	aagatgatat	ggtaacatgt	atctttgccc	tgggtctggg	1500
tgggtccagt	cagtcctcaga	tttacaagca	tttaggagcc	taggtaaaa	ctgctagtat	1560

10004560-120701

tctttttaaaa	ggttacattta	tgacttgcaa	tgatagaaaa	ctccttccaa	ttaaatggca	1620
ttttataata	ttatgtgtgt	acttcacagt	gttaaaaata	ccctcatacg	ttattgcatt	1680
tgatctttcac	agaaagtgc	ttttaaccag	tactctgggt	gcaataaata	atatgtagaa	1740
atttaagtcc	tccaattcca	gcataatccag	tgagtgttga	cagtgtgttt	atgtggaatg	1800
tttaaggata	tacaattgta	ctttatataa	attggttctt	gttcttctta	aatgtgacat	1860
gaaataattg	tgctgctaca	ttataactgga	aattaacagg	ggaaaaggga	agagctcttg	1920
gctcccttga	ggttctgcta	gtgggtgtag	gagtggttac	aactgagctt	ttagtaacca	1980
tttaaccgta	tgtaaacttg	gtttctaatt	aaaaaaaaat	ttctttttcc	a	2031

<210> 222
 <211> 968
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (241)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (954)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (961)
 <223> n equals a,t,g, or c

<400> 222	
ggcacgaggg	ccgcgggaca tccacggggc gcgagtgaca cgcgggaggg agagcagtgt 60
tctgtctggag	ccgatgccaa aaaccatgca tttcttattc agattcattg ttttctttta 120
tctgtggggc	ctttttactg ctacagagaca aaagaaagag gagagcaccg aagaagtga 180
aatagaagtt	ttgcatcgtc cagaaaactg ctctaagaca agcaagaagg gagacctact 240
naaatgcccc	ttatgacggc tacctggcta aagacggctc gaaattctac tgcagccgga 300
cacaaaatga	aggccacccc aaatggtttg ttcttggtgt tgggcaagtc ataaaaggcc 360
tagacattgc	tatgacagat atgtgccctg gagaaaagcg aaaagtagtt atacccctt 420
catttgcata	cgaaaaggaa ggctatgcag aaggcaagat tccaccggat gctacattga 480
tttttgagat	tgaactttat gctgtgacca aaggaccacg gagcattgag acatttaaac 540
aaatagacat	ggacaatgac aggcagctct ctaaagccga gataaacctc tacttgcaaa 600
gggaatttga	aaaagatgag aagccacgtg acaagtcata tcaggatgca gttttagaag 660
atatttttaa	gaagaatgac catgatgggtg atggcttcac ttctcccaag gaatacaatg 720
tataccaaca	cgatgaacta tagcatattt gtatttctac tttttttttt tagctattta 780
ctgtacttta	tgtatwaaac aaagtcmtt ttctccmagt tgkatttgct atttttcccc 840
tatgagaaga	tattttgatc tccccaatac attgatatttg gtataataaa tgtgaggctg 900
ttttgcaaac	ttaaaaaaaa atttaaaaaa actggagggg ggcccgtacc caantcgccg 960
natatgat	

<210> 223
 <211> 1404
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1351)

<223> n equals a,t,g, or c

<400> 223

cgttttccgg	cegtgcgttt	gtggccgtcc	ggcctccctg	acatgcagcc	ctctggaccc	60
cgaggttgga	ccctactgtg	acacacctac	catgctggaca	ctcttcaacc	tcctctggct	120
tgccttgccc	tgcagccctg	ttcacactac	cctgtcaaag	tcagatgcca	aaaaagccgc	180
ctcaaagacg	ctgctggaga	agagtcagtt	ttcagataag	ccggtgcaag	accgggggtt	240
ggtggtgacg	gacctcaaag	ctgagagtgt	ggttcttgag	catcgcagct	actgctcggc	300
aaaggcccg	gacagacact	ttgctgggga	tgtactgggc	tatgtcactc	catggaacag	360
ccatggctac	gatgtcacca	aggtctttgg	gagcaagttc	acacagatct	caccctctctg	420
gctgcagctg	aagagacgtg	gccgtgagat	gtttgaggtc	acgggcctcc	acgacgtgga	480
ccaaggggtg	atgctgagctg	tcaggaagca	tgccaaagggc	ctgcacatag	tgcctcggct	540
cctgtttgag	gactggactt	acgatgattt	ccggaacgtc	ttagacagtg	aggatgagat	600
agaggagctg	agcaagaccg	tgggtccaggt	ggcaaagaac	cagcatttcg	atggcttcgt	660
ggtggaggtc	tgggaaccagc	tgttaagcca	gaagcgcgtg	ggcctcatcc	acatgctcac	720
ccacttgccc	gaggctctgc	accaggcccc	gctgctggcc	ctcctgggtca	ccccgcctgc	780
catcaccccc	gggaccgacc	agctgggcat	gttcacgcac	aaggagtctg	agcagctggc	840
ccccgtgctg	gatggtttca	gcctcatgac	ctacgactac	tctacagcgc	atcagcctgg	900
ccctaattgca	cccctgtcct	gggttcgagc	ctgcgtccag	gtcctggacc	cgaagtccaa	960
gtggcgaagc	aaaatectcc	tggggctcaa	cttctatggt	atggactacg	cgacctccaa	1020
ggatgcccgt	gagcctgttg	tcggggccag	gtacatccag	acactgaagg	accacaggcc	1080
ccggatgggt	tgggacagcc	aggyctcaga	gcacttcttc	gagtacaaga	agagccgcag	1140
tgggaggcac	gtcgtcttct	acccaaccct	gaagtccctg	caggtgcggc	tggagctggc	1200
ccgggagctg	ggcgttgggg	tctctatctg	ggagctggcc	agggcctgga	ctacttctac	1260
gacctgctct	aggtgggcat	tgcggcctcc	gcggtggacg	tggtcttttc	taagccatgg	1320
agtgagttag	caggtgtgaa	atacaggcct	ncactccgtt	tgctgtgaaa	aaaaaaaaaa	1380
aaaaaaaaaa	aaaaaaaaaa	aaaa				1404

<210> 224

<211> 707

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (705)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (706)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (707)

<223> n equals a,t,g, or c

<400> 224

ngcgcgcctg	cagtcgacac	tagtggatcc	aaagaattcg	gcacgagggc	aggtccaggg	60
ctcagaaatc	agctctattg	acgaattctg	ccgcaagttc	cgcttggaact	gcccgcctggc	120
catggagcgg	atcaaggagg	accggccccat	caccatcaag	gacgacaagg	gcaacctcaa	180

10004860-150701

ccgctgcac	gcagacgtg	tctcgctctt	catcacggtc	atggacaagc	tgcgccctgga	240
gatccgcgc	atggatgaga	tccagcccg	cctgcgagag	ctgatggaga	ccatgcaccg	300
catgagccac	ctcccacccg	actttgaggg	ccgccagacg	gtcagccagt	ggctgcagac	360
cctgagcggc	atgtcggcgt	cagatgagct	ggacgactca	caggtgcgtc	agatgctgtt	420
cgacctggag	tcagcctaca	acgccttcaa	ccgcttcctg	catgcctgag	cccggggcac	480
tagcccttgc	acagaagggc	agagtctgag	gcatgaggctc	ctgggtccct	gtccgccaca	540
caggccgtgg	tcatccacac	aactcactgt	ctgcagctgc	ctgtctggtg	tctgtctttg	600
gtgtcagaac	ttttgggccc	ggccccctcc	cacaataaag	atgctctccg	accttcaaaa	660
aaaaaaaaa	aaaaactcr	ggggggcccc	gtcccaatcc	ccccnnn		707

<210> 225

<211> 1384

<212> DNA

<213> Homo sapiens

<400> 225

ggggaactgc	agtgacagca	ggagtaagag	tgggaggcag	gacagagctg	ggacacaggt	60
atggagaggg	ggttcagcga	gcctagagag	ggcagactat	caggggtgccg	gcggtgagaa	120
tccagggaga	ggagcggaaa	cagaagaggg	gcagaagacc	ggggcacttg	tgggttgag	180
agccccctcag	ccatgttggg	agccaagcca	cactggctac	caggtccct	acacagtccc	240
gggctgccct	tggttctggt	gcttctggcc	ctggggggccg	ggtggggcca	ggagggttca	300
gagcccgctc	tgctggagg	ggagtgcctg	gtggtctgtg	agcctggccg	agctgctgca	360
ggggggcccg	ggggagcagc	cctgggagag	gcacccccctg	ggcgagtggc	atttgctgcg	420
gtccgaagcc	amcaccatga	gccagcagg	gaaaccggca	atggcaccak	tggggccatc	480
tacttcgacc	aggtcctggt	gaacgagggc	ggtggctttg	accgggcctc	tggctccttc	540
gtagccctctg	tccgggggtg	ctacagcttc	cggttccatg	tgggtgaagg	gtacaaccgc	600
caaactgtcc	aggtgagcct	gatgctgaac	acgtggcctg	tcatctcagc	ctttgccaat	660
gatectgacg	tgacccggga	ggcagccacc	agctctgtgc	tactgccctt	ggaccctggg	720
gaccgagtgt	ctctgcgcct	gcgtcggggg	aatctactgg	gtggttgga	atactcaagt	780
ttctctggct	tcctcatctt	ccctctctga	ggacccaagt	ytttcaagca	caagaatcca	840
gcccctgaca	actttcttct	gcctctctct	gccccagaaa	cagcagaggc	aggagagaga	900
ctccctcttg	ytcttatccc	acytctttgc	atgggammct	gtgccaaaaca	cccaagttta	960
agaraarary	ararctwg	caggtataca	gagctggaag	tggaccatgg	aaaacatsga	1020
taaccatgca	tcttcttct	tggccacctc	ctgaaactgt	ccacctttga	agtttgaact	1080
ttagtccctc	camactctga	ctgctgcctc	cttctctcca	gctctctcac	tgagttatyt	1140
tcaactgtacc	tgttccagca	tatccccact	atctctcttt	ctctgatct	gtgctgtctt	1200
attctcctcc	ttaggcttcc	tattacctgg	gattccatga	ttcatctcct	cagaccctct	1260
cctgccagta	tgctaaaccc	tccctctctc	tttcttatcc	cgtgtgtcca	ttggcccagc	1320
ctggatgaat	ctatcaataa	aacaactaga	gaatggtggt	caaaaaaaaa	aaaaaaaaaac	1380
tcga						1384

<210> 226

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (773)

<223> n equals a,t,g, or c

<400> 226

tttaaagatg	aagaaatgac	aagggaggga	gatgagatgg	aaaggtgttt	ggaagagata	60
aggggtctra	gaaagaaatt	tagggctctg	cattctaacc	ataggcattc	tcgggaccgt	120
ccttatccca	tttaattaat	ttctctgaca	attcaattat	tttctgttat	taatgttgcc	180
actgctttct	gtttgtctgc	actttcttga	taaatatttg	ctatcgtttt	actccagtca	240

ttcgatgttg	ctgagattta	catatgactc	ttgtcaacat	ctcatctttt	gacccaatct	300
tattcattta	ataagaggtc	tcattcattt	gcatggaaaa	atgctcattg	tatattgcaa	360
agtgaaaata	acgagttgca	aaacagtgtg	tacatatatg	tgtgtatata	tgtacacttt	420
atgtgtacat	ttctatgtga	cataatgcaa	aggaaagtgt	ctgattttat	tatacaccaa	480
agggttaacag	tgaatctctg	tgtgatctct	ttttttttct	ttttgcctat	ctgcatcttc	540
tcacttgcca	aaaaatgaat	atatgtttat	gtgtgtatat	tacttgtgtc	acaaaaaacc	600
ctaaagtaga	cagtaaaaga	acttgtcaat	cgcttttgga	aggcaatgaa	acacttaata	660
aactctcaat	aacagaagcg	taaaaatgaa	atgtaaacct	ccaattacct	ctggatctct	720
tagccagagt	aataaactgg	taattattac	agataaaaaa	aaaaaaaaaa	aana	774

<210> 227
 <211> 865
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (344)
 <223> n equals a,t,g, or c

<400> 227	
ccacgcgtcc	ggcctttctt
ggtaacagga	cgggtggggt
agctttcttc	gtcctctccc
tttccaccgg	acgggagggg
gcggtgtggg	gagttggggc
caccgagctt	cgggaccggc
tctccgtccc	ttctcccatc
tcctctctgt	ccctgctgct
accgagtggc	tcaccatcca
actgccttca	ataatctgga
cctgagattc	tcctgtgcct
tgtgtcacca	cctgcttcat
tccaccctgt	accaggcagc
aag'aagagaa	actgaccctg
aaaaaaaaaa	aaaaaaaaaa
	aaaaa
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	660
	720
	780
	840
	865

<210> 228
 <211> 1102
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (462)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (469)
 <223> n equals a,t,g, or c

<400> 228	
tttttttttt	accattttaa
tgcattctct	cttattttct
cagaggggtg	ggacatatta
	cgggcgcgga
	tcctctttgg
	agtgagatga
	ctctccggag
	60
	120
	180

10004360.120701

```
<210> 229
<211> 744
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (392)  
<223> n equals a,t,g, or c
```

```
<210> 230
<211> 1935
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (1)
<223> n equals a,t,g, or c
```

<220>
 <221> SITE
 <222> (1921)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1927)
 <223> n equals a,t,g, or c

<400> 230

ntctacccta	atcaagatgg	ggacatactt	cgcgaccagg	ttcttcatga	acatatccag	60
agattgtcta	aagtagtgac	tgcaaatcac	agagctcttc	agataccaga	ggtttatctt	120
cgagaagcac	catggccatc	tgcaaatca	gaaatcagga	caataagtgc	ttataaaacc	180
ccccgggaca	aagtgcagtg	catcctgaga	atgtgctcta	cgattatgaa	cctcctgagc	240
ctggccaatg	aggactctgt	ccctggagcg	gatgactttg	ttcctgtgtt	gggtgtttgtg	300
ttgataaagg	caaattccacc	ctgtttgctg	tctactgtgc	agtatatcag	tagcttttat	360
gctagctgtc	tgtctggaga	ggagtccctat	tggtggatgc	agttcacagc	agcagtagaa	420
ttcattaaaa	ccatcgatga	ccgaaagtga	ccaagaccaa	ggcccaccaa	ggcagcagac	480
tggttaatcag	acaaacagat	ctctgagaag	gtgcatcagc	tgctttgaag	gctgaagatt	540
gttttgtatg	atactgcaca	gcacagggca	ttttaaaagca	gatctttact	aaacaggtta	600
atgagctaac	aagcagggtc	tctcgtcttt	gggctctttc	ctttctgagt	tgcatattct	660
attttcttgt	ccccaaagtag	agactagtag	tacaaaaagg	gaccacattt	ttcaagtatt	720
tctaagtata	aaaaacaaaa	caaaaatctc	ttaggaaatg	tctagacctc	cattcttggg	780
ttccctttct	ttcccttttat	tttaaaaaag	aacagtaccc	ctcttttaag	atgctgtctt	840
acattaatga	gcatctaattg	gaaagaagg	atgagttgca	ctgaggatta	gaatagtgg	900
gcgttagtgg	cattatctat	aaatacactc	acctaaattg	aaagctaaga	aggaaatgta	960
aataataat	atatttatat	ttgatgtaat	atggacatct	gcagattcta	ataaacaagg	1020
actattgctg	atagtaggct	gtgacatact	gtcttgtgaa	atggtttcct	tgacaaaatt	1080
taagctgagc	ttaaaagcaa	aaaaacaaaa	agtacacaga	aatattttatt	aaaatgtaat	1140
acagtttatt	gaactttcta	ggtatggagt	ttgatggaca	gggctgccty	taatgagtgt	1200
gaaggtcact	aagtcactta	gacatctcac	cgtggaagtt	tgtgagcctg	cattaggaga	1260
tagactgatt	accatacatg	acataaaaag	gaacagtggg	tagctcatat	tttatgggtg	1320
ttcttctcct	ccgaaataat	atactgcaga	aatcccagac	agagctcctt	acaaaccttt	1380
aattgtaata	tatttttgat	gattatttcac	attgaatgca	cagaccaaga	attcagtga	1440
tgtcattttt	taaaaaacta	atttgtattg	tctgctctag	tgatacaagt	tttactagt	1500
ataaactatt	ttaatcaacc	atactattct	tatggaaaaa	aatatctatt	ttggcagggt	1560
tctgtgcctt	tatttccctc	ttctgaaaaa	aagtctgtgt	tttcatagtt	tggtttgcat	1620
tgtatatcaa	taattaatca	ggaatgggtt	ttggtgcctg	aaaaattggc	catggaggca	1680
caccaaagct	tcaagcacia	gtcttgtaca	tgggccatca	ctgtctgggt	tcacttcgtg	1740
tgttttctaa	acacatttag	ctgtcttttt	aacaaactca	gccccatact	tgagtccttt	1800
gttgttggga	gcatttccag	gcactctttt	agggaaactgt	gacaaacagc	ctcgggcaga	1860
tgaacacgga	ggctctctgt	tgtctgtctc	tgagatcttt	gtgtctggga	atgcctaaa	1920
nttttgnntt	ttttt					1935

<210> 231
 <211> 1035
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1032)
 <223> n equals a,t,g, or c

<220>

10004360.124707

<223> n equals a,t,g, or c

agagggcctgg	ctgcgttgc	ctatctccgt	ctccgccacc	cacttagcgt	tttaggcac	60
aattaccagc	agtttctccg	ccactatctg	gaaaattacc	cgattgctcc	cggcagaata	120
caagagcttg	aagaacgccg	cagttgcgtg	gaagcctgca	gagcaagggg	agcagcgttt	180
gatgccgaat	atcagcga	tcctcacagg	gtggacctcg	atatttttaac	ctttacgata	240
gctctgactg	cctctgaagt	tatcaaccct	ctgatagaag	aacttgggtg	cgataagttt	300
atcaatagag	aatagttagg	tgggtgacact	acttcaagag	aacctctgca	tccagtcac	360
accaactcctg	caacttgatt	ttcaggaagtc	aagagtatat	cgcgataaga	cagtgcacag	420
ctggaggggga	aaaaaagggg	gaggggggaag	cttatcttga	aaaagcatca	cagaagtaga	480
aaaaaatgtc	gaaagcatta	taactgtaac	gttctttgag	tttgtgattg	atccacattt	540
ttccccctgc	attatggaaa	atgtctctca	gcattgcttt	attacaaagt	aaaggatggg	600
tttataaaat	tgagactgat	gaaacatcaa	tactagagcc	catgaggatg	aaagaaatta	660
tcaaatagtg	ctgaacagaa	taagatgtta	acgctgagtt	attaggactg	gaaggctatg	720
aaaagaactt	gaaattgtcg	gaatatgtgc	tctcttcatg	tcatattcaa	tagaagtttc	780
tagtttaaga	ttgattttgt	gttttcttag	gcatttcaag	tgacaagcaa	agtaaatgt	840
tataattatg	gataaatcat	gttttcaaga	acgtcaaat	tctggacttt	tttctttcaa	900
tttttaattt	ttaaagtttt	tttggtatta	aaaaatcyat	tcacaagcca	aaaaatwtwt	960
waaatwtwcm	gcgaaaagcc	aaaaaaaaaa	aaaammaggg	ggggcgggg	cccatcccc	1020
caaggggggtc	cngnt					1035

<213> Homo sapiens

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

gggtcgacc	acgcgtccgc	tgaccagtc	gttatagata	cttcttcccta	taccaaact	60
gtttaaacag	gtgccaccac	aagggatgtc	gtccttactc	tctgcgggtc	ttcaagcatc	120
cctttgtggg	aaargtctct	gggcaagcac	gtggtatttg	gtctgctgct	tgcttccctt	180
tttccaccag	ggatgtttgtg	atcataagtc	aaaacaacag	tatatccaa	atctcaaaag	240
ctattgtggc	ctgagcaca	ttgaaatcta	gcagagtttt	tcttatgtag	ctctagagta	300
actcttctgc	ttctctgtca	cttacaattc	aggttctgcc	tttgcctaag	agcatgagca	360
gaagagtcct	catgtgacgc	ttagtctctat	tgcagtcctg	ggtgaaacta	tttaagcwat	420
ggggctgctk	ctcccanwt	cctccctaac	aattcgttgt	gtggacttct	catctaaaag	480
gttagtggt	tttgcttggg	atcagtgctc	tctattgatg	ttcttgctgg	tctccagaca	540
catttctgtt	gcattaagac	ttgaaagact	tgtagatgtg	tgatgttcag	gcacaggatg	600
ctgaaagcta	tgttactatt	cttagtttgt	aaattgtctt	tttgatacca	tcatcttgtt	660
ttctttttgt	aggtataaat	aaaaacactg	ttgacataaa	aaaaaaaaaa	aaaaaaaaaa	720
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa			760

<211> 2057

<212> DNA
<213> Homo sapiens

<400> 233
 ccgagccggc tgcgcccggg gaatccgtgc gggcgccctc cgtcccrgtc ccatcctcgc 60
 cgcgctccag cacctctgaa gttttgcagc gcccgaaaag gaggcgagga aggagggagt 120
 gtgtgagagg agggagcaaa aagctcacc ctaaacattt atttcaagga gaaaagaaaa 180
 agggggggcg caaaaatggc tggggcaatt atagaaaaca tgagcaccaa gaagctgtgc 240
 attgttggtg ggattctgct cgtgttccaa atcatcgctt ttctgggtgg aggcttgatt 300
 gctccagggc ccacaacggc agtgtcctac atgtcgggtg aatgtgtgga tgcccgtaa 360
 aaccatcaca agacaaaatg gttcgtgcct tggggaccca atcattgtga caagatccga 420
 gacattgaag aggcaattcc aagggaatg gaagccaatg acatcgtgtt ttctgttcac 480
 attccccctc ccacatgga gatgagtcct tggttccaat tcatgmtgtt tatcctgcag 540
 ctggacattg cttcaagct aaacaaccaa atcagrgaaa atgcagaagt ctccatggac 600
 gtttccctgg cttaccgtga tgacgcgttt gctgagtggg ctgaaatggc ccatgaaaga 660
 gtaccacgga aactcaaatg caccttcaca tctcccaaga ctccagagca tggaggggcg 720
 gttactatga atgtgatgtc cttcctttca tggaaattgg gtctgtggcc catgaagttt 780
 taccttttaa acatccggt gctgtgaaat gagaagaaga aaatcaatgt gggaattggg 840
 gagataaagg atatccggtt ggtggggatc caccaaaatg gaggcctcac caaggtgtgg 900
 tttgccatga agaccttcct tacgccagc atcttcatca ttatgggtgt gtattggagg 960
 aggatcacca tgatgtcccg acccccagtg cttctggaaa aagtcattct tgcccttggg 1020
 atttccatga cttttatcaa tatcccagtg gaatggtttt ccatcgggtt tgactggacc 1080
 tggatgctgc tgtttgggtg catccgacag gcattctcta tgcrtatgct ctktccttct 1140
 ggatcatctt ctgtggcgag cacatgatgg atcagcacga gcggaaccac atcgagggt 1200
 attggaagca agtcggaccc attgcccgtt gtccttctgc ctcttcatat ttgacatgtg 1260
 tgagagaggg gtacaactca cgaatccctt ctacagtatc tggactacag acattgggaa 1320
 cagagctggc catggctttc atcatcgtgg ctggaatctg cctctgcctc taacttcctg 1380
 tttctatgct tcatggtatt tcagggtgtt cggaacatca gtgggaagca gtccagcctg 1440
 ccagctatga gcaaagtccg gcggctacac tatgaggggc taatttttag gttcaagttc 1500
 ctcattgcta tcacctggc ctgcgctgcc atgactgtca tcttcttcat cgttagtcag 1560
 gtaacggaag gccattggga aatggggcgg cgtcacagtc ccaagtgaac agtgcccttt 1620
 tcacaggcat ctatgggatg tggaatctgt atgtccttgc tctgatgttc ttgtatgcac 1680
 catcccataa aaactatgga gaagaccagt ccaatggaat gcaactccca tgtaaatcga 1740
 gggaagattg tgctttgttt gtttcggaac tttatcaaga attgttcagc gcttcgaaat 1800
 attccttcat caatgacaac gcagcttctg gtatttgagt caacaaggca acacatgttt 1860
 atcagctttg catttgagcag tgtcacagtc acattgattg tacttgata cgcacacaaa 1920
 tacactcatt tagcctttat ctcaaaatgt taaatataag gaaaaaagcg tcaacaataa 1980
 atattctttg agtattgtct tacttctctt aaaaaaaaaa aaaaaaactc gtgccgaatt 2040
 cggcacgagc ggcacga 2057

<210> 234
<211> 2084
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (775)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2080)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (2083)

<223> n equals a,t,g, or c

<400> 234

ggcagagggc	catttctctgc	aaagagccaa	acccccattc	ctctgtgccc	ctcctctccc	60
accaagtgtc	ttataaaaaat	agctcttggt	accggaaata	actgttcatt	tttcaactct	120
ccctcctagg	tcacactttt	cagaaaaaga	atctgcatcc	tggaaaccag	aagaaaaata	180
tgagacgggg	aatcatcgtg	tgatgtgtgt	setgcctttg	gctgagtgtg	tggagtcctg	240
ctcaggtgtt	aggtacagtg	tgtttgatcg	tgggtggcttg	aggggaaccg	cttgttcaga	300
gctgtgactg	cggctgcact	gcagagaagc	tgcccttggc	tgctcgtagc	gccgggcctt	360
ctctcctcgt	catcatccag	agcagccagt	gtccgggagg	cagaaggtac	cggggcagct	420
actggaggac	tgtgcggggc	tgccctgggt	gccccctccg	ccgtggggcc	ctgttgctgc	480
tgtccatcta	tttctactac	tccctcccaa	atgcggtcgg	cccgccttc	acttggatgc	540
ttgcctcct	gggccttctc	gcaggcactg	aacatcctcc	tgggcctcaa	gggcctggcc	600
ccagctgaga	tctctgcagt	gtgtgaaaaa	gggaatttca	acgtggccca	tgggctggca	660
tggcatatt	acatcggata	tctgcggctg	atcctgccag	agctccaggc	ccggattcga	720
acttacatc	agcattacaa	caacctgcta	cggggtgcag	tgagccagcg	gtgtnatatt	780
ctcctcccat	tggactgtgg	ggtgcctgat	aacctgagta	tggctgacct	caacattcgc	840
ttcctggata	aactgcccc	gcagaccggt	gacctgtctg	gcataaagga	tcgggtttac	900
agcaacagca	tctatgagct	tctggagaac	gggcagcggg	cgggcacctg	tgctcctggag	960
tacgcaaccc	ccttgcagac	tttgtttgcc	atgtcacaat	acagtcaagc	tggtcttagc	1020
ggggaggata	ggcttgagca	ggccaaactc	ttctgcccga	cacttgagga	catcctggca	1080
gatgcccttg	agtctcagaa	caactgccgc	ctcattgcct	accaggaacc	tgagatgac	1140
agcagcttct	cgctgtccca	ggaggttctc	cggcacctgc	ggcaggagga	aaaggaagag	1200
gttactgtgg	gcagcttgaa	gacctcagcg	gtgcccagta	cctccacgat	gtcccaagag	1260
cctgagctcc	tcatacagtg	aatggaaaaa	ccccctcctc	tccgcacgga	tttctcttga	1320
gacccagggg	caccaggcca	gagcctccag	tggctctccaa	gcctctggac	tgggggctct	1380
cttcagtggc	tgaatgtcca	gcagagctat	ttccttccac	agggggcctt	gcaggggaagg	1440
gtccaggact	tgacatctta	agatgcgtct	tgtccccttg	ggccagtcac	ttccccctct	1500
tgagcctcgg	tgtcttcaac	ctgtgaaatg	ggatcataat	cactgcctta	cctcccccac	1560
ggttggtgtg	aggactgagt	gtgtggaagt	ttttcataaa	ctttggatgc	tagtgtaact	1620
aggggggtgtg	ccaggtgtct	ttcatggggc	cttccagacc	cactccccac	ccttctcccc	1680
ttcctttgcc	cgggggacgc	gaactctctc	aatggatatca	acaggctcct	tcgcccctctg	1740
gctcctggtc	atgttccatt	attgggggagc	cccagcagaa	gaatggagag	gaggaggagg	1800
ctgagtttgg	ggtattgaat	cccccggtc	ccaccctgca	gcataaaggt	tgctatggac	1860
tctcctgcgg	ggcaactctt	gcgtaatcat	gactatctct	aggattctgg	caccacttcc	1920
ttccctggcc	ccttaagcct	agctgtgtat	cggcaccccc	acccccactag	agtactccct	1980
ctcacttgcg	gtttccttat	actccacccc	tttctcaacg	gtcctttttt	aaagcacatc	2040
tcagattaaa	aaaaaaaaaa	aaaaaaaaaa	agggggggcn	gcnt		2084

<210> 235

<211> 2143

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2058)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2080)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2115)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2132)
 <223> n equals a,t,g, or c

<400> 235

tcgacccacg	cgtccgggttg	aattccttga	cctgcaaaca	catatatttatt	agcctgactc	60
aaacaatgaa	gctatttaaaa	cttcggagga	acattgttaa	actctctttg	tatcggcatt	120
tcaccaacac	gcttatttttg	gcagtggcag	catccattgt	gtttatcatc	tggaacaaca	180
tgaagttcag	aatagtgcac	tgtcagtcgg	actggcgagg	gctgtgggta	gacgatgcca	240
tctggcgctt	gctgttctcc	atgatcctct	ttgtcatcat	ggttctctgg	cgaccatctg	300
caaacaacca	gaggtttgcc	ttttcaccat	tgtctgagga	agaggaggag	gatgaacaaa	360
aggagcctat	gctgaaagaa	agctttgaag	gaatgaaaaa	gagaagtacc	aaacaagaac	420
ccaatggaaa	tagtaaagtt	aacaaagcac	aggaagatga	tttgaagtgg	gtagaagaga	480
atgttccttc	ttctgtgcac	gatgtagcac	ttccagccct	tctggattca	gatgaggaac	540
gaatgatcac	acactttgaa	aggtccaaaa	tgagtaagg	aatgggaaga	tttgcagtta	600
aagatggcta	ccatcaggga	agagatcagc	atctgtgtca	gtcttctgtg	cggctccatg	660
ggattaaagg	aagcaatgac	atcctgatct	gttccttgat	ctttgggcat	tgaggttggc	720
gagaggtgtc	agaacaaaga	gaacatctta	ctgaaaacaa	gttcataaga	tgagaaaaat	780
ctacgagctt	cttattttaca	acactgctgc	cccctttcct	cccagactct	gacatggatg	840
ttcatgcaac	ttaagtgtgt	tgttcctgaa	ctttctgtaa	tgtttcattt	tttaaactctg	900
acaaactaaa	aagtttaacg	tcttctaaaa	gattgtcatc	aacaccataa	tatgtaactc	960
ccaggagcaa	ctgcctgtaa	tttttattta	tttagggagt	tacatagggtg	atgggggaaa	1020
ttgttaacta	cctttcattt	tcctgggaag	tcaagggttac	atcttgcaga	ggttgttttg	1080
agaaaaaagg	gcccttctga	gttaaggagc	catagttcta	tcaatgatca	aaagaaaaaa	1140
aaaaaaaaga	gaaactgtta	cagtatgatt	cagatcattt	aaaaaagcaa	aatcaagtgc	1200
aattttgttt	acaaatgggtg	tatattaaag	atttttctat	ttcagatgta	ctttaagag	1260
aaatatttagc	ttaactcttt	tgacatctgc	tattgtgaca	catccatttg	ctggcaatgt	1320
ggtgcacact	ccgaaacttt	taactactgt	tttgtaaggc	tccaagggtg	gcattgcagg	1380
gtccttaggc	aatgttttgt	ttgcctttat	gcagagaggt	gctccaagtg	ctgtgattga	1440
gcaccgtgct	agaggaactg	taatgcttca	gaagttgtag	cttatacaaa	ggaaacaggt	1500
cctgctggct	taatttaaac	agttattgca	tgaagtagcg	tgagggccct	ggactgctgc	1560
tcgttcttta	ggatggactg	ttctgggtatc	tggtattggt	ttagagactg	ttaataagggt	1620
acatcacaa	gtgatgggat	tcatttgaag	cactctatct	ctgttttaat	ggttttatcc	1680
aattttgcct	tcccaagatt	tttgttctac	ataaaaagtt	catgccactt	tttaataataa	1740
aaaaatttaa	caaaattaat	gtatttttct	catttttttc	aaactttttc	taaagactct	1800
ttctgtcaaa	ctcatgaaaa	atcttcttct	atggctttta	ttctagattg	tcttattttc	1860
tgttaaaacc	aatgaccaca	tgaccacaat	cttcactaac	tcatactgca	gtgaaagtgt	1920
taacccttag	gtagtttctc	tacaactctt	tgctatgggtg	atttttaaaa	aagtttccta	1980
gggaagtatc	tctgagggaa	caggcaatct	gaaggaaactg	actatattct	ccatggctaa	2040
gtccattagg	ccaaaagnct	gggtgggtat	tggtgtctcan	gctgtctatt	ggcatattaa	2100
aaacgtaggc	cgganggaat	aattaggttg	tnatgccggc	ggg		2143

<210> 236
 <211> 1133
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (528)
 <223> n equals a,t,g, or c

<220>

<221> SITE
 <222> (552)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1133)
 <223> n equals a,t,g, or c

<400> 236

ggcacagctt	ggaatgaacc	cctgtggata	aggggggacta	ttagatagaa	taaacaatcaa	60
taaatagtctt	atgaataaac	gctaataccta	ccttcccagc	ctgacacctc	ccagtggaca	120
ccacacttca	cttgaagcct	tagaaacctt	tcccacccat	gcttccagcc	ctggcttcat	180
gttgccattt	ctcaccccca	gaacaggccg	cccgcctgaa	gaaactacaa	gagcaagaga	240
aacaacagaa	agtggagttt	cgtaaaagga	tggagaagga	ggtgtcagat	ttcattcaag	300
acagtgggca	gatcaagaaa	aagtttcagc	caatgaacaa	gatcgagagg	agcatactac	360
atgatgtggt	ggaagtggct	ggcctgacat	ccttctcctt	tggggaagat	gatgactgtc	420
gctatgtcat	gatcttcaaa	aaggagtttt	caccctcaga	tgaagagcta	gactcttacc	480
gtcgtggaga	ggaatgggac	ccccagaagg	ctgaggagaa	gcggaacntg	aaggagctgg	540
cccagaggca	angaggagga	ggcagcccag	caggggcctg	tgggtggtgag	ccctgccagc	600
gactacaagg	acaagtacag	ccacctcatc	ggcaaggagg	cagccaaaga	cgacagccac	660
atgctacagg	ccaataagac	ctacggctgt	ktgcccgtgg	ccaataagag	ggacacacgc	720
tccattgaag	aggctatgaa	tgagatcaga	gccaagaagc	gtctgcggca	gagtggggaa	780
gagttgccgc	caacctccta	ggcgccccgc	ccagctccct	ttgacccttg	gggcagggca	840
gggggcaggg	agagacaagg	ctgctgtctat	tagagcccat	cctggagccc	cacctctgaa	900
ccacctccta	ccagctgtcc	ctcaggctgg	gggaaaacag	gtgtttgatt	tgtcaccgtt	960
ggagcttgga	tatgtgcgtg	gcattgtgtg	gtgtgtgtga	gagtgtgaat	gcacaggtgg	1020
gtattttaatc	tgtattattc	cccgttcttg	gaattttctt	cccatggggc	tggggtaactt	1080
tacattcaat	aaatactgtt	taacccaaaa	aaaaaaaaaa	aaaagaaaga	agn	1133

<210> 237
 <211> 1025
 <212> DNA
 <213> Homo sapiens

<400> 237

cctggcccac	attgcttcat	tggcctggcc	atgcgcctgt	actatggcag	ccgctagtcc	60
ctgacaactt	ccaccctgat	tccggaccct	gtagattggg	cgccaccacc	agatccccct	120
cccaggcctt	cctccctctc	ccatcagcag	ccctgtaaca	agtgccttgt	gagaaaagct	180
ggagaagtga	gggcagccag	gttattctct	ggaggttggg	ggatgaaggg	gtaccctagg	240
agatgtgaag	tgtgggtttg	gttaaggaaa	tgcttaccat	ccccaccccc	caaccaagtt	300
cttccagact	aaagaattaa	ggtaacatca	atacctaggc	ctgagaaata	acccccctct	360
tgttgggcag	ctccctgctt	tgtcctgcat	gaacagagtt	gatgaaagtg	gggtgtgggc	420
aacaagtggc	tttccttgcc	tacttttagtc	acccagcaga	gccactggag	ctggctagtc	480
cagcccagcc	atgggtgcatg	actcttccat	aagggatcct	cacccttcca	ctttcatgca	540
agaaggccca	gttgccacag	attatacaac	cattacccaa	accactctga	cagtctcctc	600
cagttccagc	aatgcctaga	gacatgctcc	ctgcctctc	cacagtgtctg	ctccccacac	660
ctagcctttg	ttcttgaaac	cccagagagg	gctgggcttg	actcatctca	gggaatgtag	720
cccctgggcc	ctggcttaag	ccgacactcc	tgacctctct	gttcaccctg	agggctgtct	780
tgaagcccgc	taccactctt	gaggctccta	ggaggtacca	tgcttccccc	tctggggcct	840
gccccctgct	agcagtctcc	cagctcccaa	cagcctgggg	aagctctgca	cagagtgacc	900
tgagaccagg	tacaggaaac	ctgtagctca	atcagtgtct	ctttaactgc	ataagcaata	960
agatcttaat	aaagtcttct	aggctgtagg	gtggttccta	caaccacagc	caaaaaaaaa	1020
aaaaa						1025

<210> 238

10004860.12001

<211> 1400
 <212> DNA
 <213> Homo sapiens

<400> 238

ggcacagttt	attaatacct	attatgggaa	agtcactttg	gttggcattg	aaaattacat	60
catcttttaa	gcagtatttg	tccccagatg	gactcatcac	tagcaaagac	taggttcatt	120
ggaaggcata	gggtgagaga	atgggaagat	gragtggagg	cgggttggtt	aagtgtgttc	180
agtgagtgat	tttgtctact	tgaataatgg	tccatgtttg	ggggcatatt	gtgtttcata	240
agaagtgaaa	ggtattttgca	aagtaagcta	caaatagacc	ataaatctgt	taacaacagt	300
ccttaatatg	caaagatgaa	aaacaagcat	tactgtctacc	caaaggggaa	tggtgtcttg	360
tgatgtgcag	atggggctgt	tggttaagag	agctattaca	ggttttctct	cttaggtttc	420
ataggaggta	gttactgaga	tgagattgtt	ttatcttttt	gaatacagat	ctcttgtctt	480
gagttagttc	tgaggatggg	agtaataaag	gagttttttg	tttttttgtt	tgtttgtttg	540
ttttggctcc	ttagtaatac	tcctctgaca	tttattttcta	ttattcttca	aagaaaggaa	600
accaactgaa	atgtttgctt	taacaaacat	tttaataagt	tctctggggt	tttttttccc	660
cttttaaaaa	aatttagcata	taccatagca	ataaaaagac	taatgttaac	tattgtatgc	720
tacaacttaa	gtgatttttc	taaagaagca	caatgtcatt	graagtatta	ttgaaaagga	780
tcatagtcac	attgaatttg	tgaaggccaa	agaaattgaa	gggagtgata	ttttcatttt	840
atgatattca	catatttagt	aaattttgtg	tacaagaata	ccaggcagag	tgttttaccc	900
atggaaacag	gttttcagatt	actttgtttt	tactgttaga	gtctcaagtt	tagaaatgct	960
aacacttaaa	tcagtttttt	tctcactata	cttgaagatt	gttaatatat	tgatatcttc	1020
ctagcttgat	ggaatttaaa	catatcttca	gatctgtgac	agtgacagcc	aataggactg	1080
ataatattag	cttcaaacca	ataatatcca	gggttaaaat	aaaaatcata	gtgaaagtac	1140
gattgtaaaa	ttatgctata	ttaaactttt	agtctgtaat	aacttgacat	caaaatgtta	1200
tgtaattacc	ataaataatg	gctagcgaga	acatcttttg	aaattctcaa	attacctttc	1260
ttactacact	gtttgcagaa	tgaatgtaga	aatgatcctg	ttagctttct	gaatgttctg	1320
tggttgaatg	tgtttttgct	taaataaagc	ttttgggtatt	tgtttaaatw	acaaaaaaaa	1380
aaaaaaaaaa	aaaadactga					1400

<210> 239
 <211> 1250
 <212> DNA
 <213> Homo sapiens

<400> 239

gccacgcgt	ccgcccacgc	gtccggcggt	gcggagtatg	gggcgctgat	ggccatggag	60
ggctactggc	gcttcctggc	gcygctgggg	tcggcactgc	tcgtcgggtt	cctgtcgggtg	120
atsttcgccc	tcgtctgggt	cctccactac	cgagaggggc	ttggctggga	tgaggagcga	180
ctagagttaa	actggcacc	agtgtctsat	gtcaccggct	tcgtcttcat	ccagggcac	240
gcatcatcgt	ctacagactg	ccgtggacct	ggaaatgcag	caagctcctg	atgaaatcca	300
tccatgcagg	gttaaagtga	gttgctgcca	ttcttgcaat	tatctctgtg	gtggcctgtg	360
ttgagaacca	caatgttaac	aatatagcca	atatgtacag	tctgcacagc	tggttgggac	420
tgatagctgt	catatgctat	ttgttacagc	ttctttcagg	tttttcagtc	tttctgcttc	480
catgggctcc	gctttctctc	cgagcatttc	tcatgcccatt	acatgtttat	tctggaattg	540
tcacttttgg	aacagtgatt	gcaacagcac	ttatgggatt	gacagagaaa	ctgatttttt	600
ccctgagaga	tctgcatac	agtacattcc	cgccagaagg	tgttttcgtg	aatacgcttg	660
gccttctgat	cctgggtgtc	ggggccctca	ttttttggat	agtcaccaga	ccgcaatgga	720
aacgtcctaa	ggagccaaat	tctaccattc	ttcatccaaa	tgagggcact	gaacagggag	780
caagagggtc	catgccagcc	tactctggca	acaacatgga	caaatcagat	tcagagttaa	840
acartgaagt	agcagcaagg	aaaagaaact	tagctctgga	tgaggctggg	cagagatcta	900
ccatgtaaaa	tggtgtagag	atagagccat	ataacgtcac	gtttcaaaac	tagctctaca	960
gttttgcttc	tcctattagc	catatgataa	ttgggctatg	tagtatcaat	atttacttta	1020
atcacaaagg	atggtttctt	gaaataattt	gtattgattg	aggcctatga	actgacctga	1080
attggaaagg	atgtgattaa	tataaataat	agcagatata	aattgtgggt	atgttacctt	1140
tatcttgttg	aggaccacaa	cattagcacg	gtgccttgtg	cakaatagat	actcaatatg	1200
tgaatatgtg	tctactagta	gttaatttga	taaactggca	gcatccctga		1250

<210> 240
 <211> 1307
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (651)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1064)
 <223> n equals a,t,g, or c

<400> 240
 ggcacgagag aaaagagggt gagaatgttt tctagcaggc agaatgtgca tacatgtttt 60
 catgartgtc ctttgggtgc tgtttctttt aaatcctctg tgcacagggc tctggccttt 120
 artaaactgt ttttctgtct tacgtcatgc tgactgggtg ctaggggctg attacaaagg 180
 ggaagagttg aacagacatc agggggccgat gaaaccaaag gactaggagt caggagaaca 240
 agtcagggat taggagacag cggtttggtt tattgtttatc cagctggagg actcctaggg 300
 gcagcagcag gaggaatacc agggccacgg agggggcagga gtctcacagt ggagggcaga 360
 ctctaacaga tgccagctga acgctcgtct gccctggatg tcatacgagt tggggaccag 420
 aaatctgggc tcagagaacc cgtccaggga gatttgaagc catgggttat cttctagagt 480
 tgatactgat aatatatttt aatttttatt gatgtttaat accttctgaa acaggagggg 540
 aagatcagat gggaagcccy tctgttgaag gatcttggga accttgggtgg tttttttttt 600
 ttgggtttttt tttttttgat cgagctgtgg acatccttct taattcgatt ntgaggattt 660
 gtttaactaa aaagttccca aacacagaaa gggcctcccc acctgctttg gggagctgtc 720
 tgtstctggga gtgccaggca tccsatggga cccatcactg ccagtgtctg tgcctcccag 780
 aggtcagccc tgtgtctgcc ctgggtctgt ctccctctgt acagggcaga gcatttcttg 840
 tcagtttctc catgggtgcct cccaccctt tgtaaagtgg atggacatga tgggaattcag 900
 ttgtctcacc ctgatagcct ggggtgtgat attcacttta cccgcactca gacacaggcg 960
 accttgaagc agttctcgtt gtgtagagtc cacgtgacag tccccacagc ctcccagat 1020
 agctgtgtgc ctgtgcgcta ctgctgtgcc attttcccaa cttnggcgtt tcactaaatg 1080
 cagctgatct ctctctctgt gcactcgtga tccatgttga acaatacatg taggttcttt 1140
 ttccacgcaa tgtaagaaca tgatatactg tacgttggaa agcatttacc ttattttatat 1200
 acctgaatgt tcctactaca caaataaaca tatattaaat wctaaaaaaa aaaaaaaaaa 1260
 ctggaggggg ggcccgttac ccaaatcgcc ggatagtgat cgtaaac 1307

<210> 241
 <211> 888
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (830)
 <223> n equals a,t,g, or c

<400> 241
 ctgttagaat gccagttta cctggatggc aacccaacag tgctcctgcc cacctgcccc 60
 tcaatcctcc tagaattcag cccccaattg ccaggttacc aataaaaaact tgtacaccag 120
 ccccaggac agtctcaaat gcaaatccac agagtgasmc accacctcgg gtagaatttg 180
 atgacaacaa tccctttagt gaaagttttc aagaacggga acgtaaggaa cgtttacgag 240
 aacagcaaga gagacaacgg atccaactca tgcaggaggt agatagacaa agagctttgc 300

10004350.120701

```

agcagaggat ggaaatggag cagcatggta tgggtgggctc tgagataagt agtagtagga 360
catctgtgtc ccagattccc ttctacagtt ccgacttacc ttgtgatttt atgcaacctc 420
taggacccct tcagcagttc ccacaacacc aacagcaaatt ggggcagggtt ttacagcagc 480
agaatataca acaaggatca attaattcac cctccaccca aactttcatg cagactaatg 540
agcgaggcag gtaggcctc cttcatttgt tcctgattca ccatcaatcc ctgttggaag 600
cccaaatttt tcttctgtga agcagggaca tggaaatctt tctgggacca gcttccagca 660
gtccccagtg aggccttctt ttacacctgc tttaccagca gcacctccag tagctaatag 720
cagtctccca tgtggccaag attctactat aacccatgga cacagttatc cgggatcaac 780
ccaatcgctc attcagttgt attctgatat aatcccagag gaaaaagggn aaaaaaara 840
amaaraaara araaaggaga tgatgatgca gaattccacc aaggctcc 888

```

<210> 242

<211> 1811

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1810)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1811)

<223> n equals a,t,g, or c

<400> 242

```

cngncagtac cggtcngatt cccgggtcga cccacgcgtc cgctgcattc cagggccttt 60
cagtggccttt cattctgaag ttcttgata acatgttcca tgtcttgatg gcccagggtta 120
ccastgtcat tatcacaaca gtgtctgtcc tggctcttga cttcaggccc tccctggaat 180
ttttcttga agccscatca gtctstctct ctatatatat ttataatgcc agcaagcctc 240
aagttccgga atacgcacct aggcaagaaa ggatccgaga tctaagtggc aatctttggg 300
agcgttccag tggggatgga gaagaactag aaagacttac caaacccaag agtgatgagt 360
cagatgaaga tacttttctaa ctgggtaccca catagtttgc agctctcttg aaccttattt 420
tcacattttc agtgtttcta atatttatct ttctactttg ataaaccaga aatgtttcta 480
aatcctaata ttctttgcat atatctagct actccctaaa tggttccatc caaggcttag 540
agtacccaaa ggctaagaaa ttctaaagaa ctgatacagg agtaacaata tgaagaattc 600
attaatatct cagtacttga taaatcagaa agttatatgt gcagattatt ttctttgggc 660
ttcaagcttc caaaaaactt gtaataatca tgttagctat agcttgtata tacacataga 720
gatcaatttg ccaaatattc acaatcatgt agttctagtt tacatgccaa agtcttccct 780
ttttaacatt ataaaagcta gggtgtctct tgaattttga ggccctagag atagtcattt 840
tgcaagtaaa gagcaacggg accctttcta aaaacgttgg ttgaaggacc taaatacctg 900

```

10004360-120701

```

gccataccat agatttgga tgatgtagtc tgtgctaaat attttgctga agaagcagtt 960
tctcagacac aacatctcag aattttaatt tttagaaatt catgggaaat tggatttttg 1020
taataatctt ttgatgtttt aaacattggg tccctagtca ccatagttac cacttgattt 1080
ttaagtcatt taaacaagcc acgggtggggc ttttttctcc tcagtttgag gagaaaaatc 1140
ttgatgtcat tactcctgaa ttattacatt ttggagaata agagggcatt ttattttatt 1200
agttactaat tcaagctgtg actattgtat atctttccaa gagttgaaat gctggcctca 1260
gaatcatacc agattgtcag tgaagctgat gcctaggaac ttttaaaggg atcctttcaa 1320
aaggatcact tagcaaacac atgttgactt ttaactgatg tatgaatatt aatactctaa 1380
aaatagaaag accagtaata tataagtcac tttacagtgc tacttcacac ttaaaagtgc 1440
atgggtattt tcatgggtatt ttgcatgcag ccagttaact ctctagata gagaagtcag 1500
gtgatagatg atattaaaaa ttagcaaaac aaagtgactt gctcagggtc atgcagctgg 1560
gtgatgatag aagagtgggc tttaactggc aggcctgtat gtttacagac taccatactg 1620
taaatatgag ctttatgggt tcattctcag aaacttatac atttctgctc tctttctcc 1680
taagtttcat gcagatgaat ataagtaat atactattat ataattcatt tgtgatatcc 1740
acaataatat gactggcaag aattggtgga aatttgtaat taaaataatt attaaaccta 1800
aaaaaaaaan n 1811

```

```

<210> 243
<211> 2271
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (553)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (2267)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (2269)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (2271)
<223> n equals a,t,g, or c

```

```

<400> 243
ctgacctcat ggcgtagagc ctagcaacag cgcaggctcc cagccgagtc cgttatggcc 60
gctgccgtcc cgaagaggat gagggggcca gcacaagcga aactgctgcc cgggtcggcc 120
atccaagccc ttgtgggggtt ggcgcggccg ctgggtcttg cgctcctgct tgtgtccgcc 180
gctctatcca gtgttgatc acggactgat tcaccgagcc caaccgtact caactcacat 240
atttctaccc caaatgtgaa tgctttaaca catgaaaacc aaaccaaac tttctatttc 300
caaatcagca ccaccctccc tcccacgacg agtaccaaga aaagtggagg agcatctgtg 360
gtccctcatc cctcgcctac tctctgtct caagaggaag ctgataacaa tgaagatcct 420
agtatagagg aggaggatct tctcatgctg aacagttctc catccacagc caaagacact 480
ctagacaatg gcgattatgg agaaccagac tatgactgga ccacgggccc cagggacgac 540
gacgagtctg atngacacct tggaagaaaa caggggttac atggaaattg aacagtcagt 600
gaaatctttt aagatgccat cctcaaatat agaagaggaa gacagccatt tcttttttca 660
tcttattatt tttgcttttt gcattgctgt tgtttacatt acatatcaca acaaaaggaa 720
gatttttctt ctgggttcaaa gcaggaaatg gcgtgatggc ctttgttcca aaacagtgga 780
ataccatcgc ctagatcaga atgttaatga ggcaatgcct tctttgaaga ttaccaatga 840

```


ttatatTTTT taaagcactg tgatttgaat ttgcttatgt aattttatTT gcttgacttt 900
 ttatatgata ttgtgcaaT gtttgccata ggcaattggT acttaaatga gaggtgagtc 960
 tctcttttgc cttgggtgctt tggaaattaa atgtcacaaa cgagtatata attttttatc 1020
 tgtactttta gagctgagtt taatcaggtg tccaaaatgt gagttaaaca ttaccttata 1080
 tttacactgt tagtttttat ttgttttagat ttattatgct tcttctggaa gtattagtga 1140
 tgctactttt aaaagatccc aaacttgtaa ctaaattctg acatatctgt tactgctgac 1200
 tcacattcat tctccgccat tcaaatacta ttttttatcc acattttttt ttgttcccaa 1260
 actgtaatgt acaaggatat gtgtgataat gctttggatt tgagtaatat ttttttttct 1320
 tccaagaaaa ctgcttttga tatttttaga taatttaaT gtcaagaaT cttggcaaca 1380
 tgctcaatct gaccacaatt ttaggtaaaa cattaatgt gtcaagaaT cttggcaaca 1440
 gagactctgc agcttgcaT ggacatagat aaaatgttac agagatacta ttttttttggT 1500
 tggaaattact atattaaatt tagaagcaga aactggtaaa atgttaaata catgtacaat 1560
 tgcttttagt tagcaattga ttgtagcatg gggtccctcca aggtttcaag caatgggcag 1620
 agttttaaT tatatcagat tctgttactt cgtttattat tttacagtaa atttgaataa 1680
 atcttagggg tcattatcac ttaaataata ctgtacctag gtctttcaaa ttaaaattat 1740
 acctgaatga agttgtttgt atacataaag gatatttTgt tacaattacc ttttttcccc 1800
 cacacttgTt ttctttgttt ttgtttttta tggcaactgg aaagtattta ctatgggatt 1860
 catttatgtc tgtctttcta tcataaagaa ttgatcaata tgtaaataTg tgatttgaac 1920
 catgggtgac ttacaagtgt cactacagct ttttagaaaa catagcccta atatatgtta 1980
 agcaggaccc ggggtgagcca gtgggcttgc gctttatgta gagctggaag aaggccgtcc 2040
 atcctgtctc ttgggctggac agtgtacttt cctaataggg aagggaagca caatggaaT 2100
 acccctgaac cgttttattg cagtaatttt tttcatatct gaaactatta tttaatattt 2160
 tgaataagat tttaaaaaT aaatggcaaa gatataaatc taaaaaaaa aaaaaaaaaa 2220
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanana n 2271

<210> 244
 <211> 2500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2459)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2473)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2475)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2478)
 <223> n equals a,t,g, or c

<400> 244
 tccaagctac gccactcggg ctggggcgTt gggagcggga gtgcagagcg tggctgtggc 60
 ggcggcggTg agaagagcga ggcgkaggag ggggtgccat ggccgggcag cagttccagT 120
 acgatgacag tgggaacacc ttcttctact tctcacctc ctctgtgggg ctcatcgtga 180
 tcccggcgac atactacctc tggccccgag atcagaatgc cgagcaaatt cgattaaaga 240
 atatcagaaa agtatatgga aggtgtatgt ggtacgttta cggttattaa aaccccagcc 300
 aaatattatt cctacagtaa agaaaatagt tctgcttgca ggaTgggcat tgttcttatt 360

10004360-120701

```

ccttgcatat aaagtttcca aaacagaccg agaataccaa gaatacaatc cttatgaagt 420
attaaatttg gatcctggag ccacagtagc agaaattaaa aaacaatatc gtttgctgtc 480
acttaaatat catccagata aaggaggtga tgaggttatg ttcattgagga tagcaaaagc 540
ttatgctgct ttaacggatg aagagtcccc gaaaaatttg gaagaatttg gaaatccaga 600
tgggcctcaa gccacaagct ttggaattgc cctgccagct tggatagttg accagaaaaa 660
ttcaattctg gttttacttg tatatggatt ggcatttatg gttatccttc cagttgttgt 720
gggctcttgg tggatctgct caatacgcta tagtggagac cagattctaa tacgsacaac 780
acagatttat acatactttg tttataaaac ccgaaatatg gatattgaaac gtcttatcat 840
ggttttggst ggagcttctg aatttgatcc tcagtataat aaagatgcca caagcagacc 900
aacggataat attctaatac cacagctaatt cagagaaatt ggcagcatta atttaaagaa 960
gaatgagcct ccacttacct gcccatatag cctgaaggcc agagtctctt tactgtctca 1020
tcttgctaga atgaaaattc ctgagacctt tgaagaagat cagcaattca tgctaaaaaa 1080
gtgtcctgcc ctacttcaag aaatggttaa tgtaattctg caactaatag taatggcccc 1140
gaaccgtgaa gaaagggagt ttcgtgctcc aactttggca tccctagaaa actgcatgaa 1200
gctttctcag atggccgttc agggacttca gcaatttaag tctcccttc tgcagctccc 1260
tcatattgaa gaggacaatc ttagacgggt ttctaatacat aagaagtata aaattaaaac 1320
tatccaggat ttggtgagtt taaaagaatc agatcgtcac actctactgc acttccttga 1380
agatgaaaaa tatgaagagg ttatggctgt ccttgggagt tttccatatg tgaccatgga 1440
tataaaatca caggtgttag atgatgaaga tagcaacaac atcacagtag gatccttagt 1500
tacagtgttg gttaagttga caaggcaaac aatggctgaa gtatttgaaa aggagcagtc 1560
catctgtgct gcagaggaac agccagcaga agatgggcag ggtgaaacta acaagaacag 1620
gacaaaagga g gatggcaac agaagagtaa aggacccaag aaaactgcta aatcaaaaaa 1680
aaagaaacct ttaaaaaaaa aacctacacc tgtgctatta ccacagtcaa agcaacagaa 1740
acaaaagcag gcaaatggag tcgttgggaa tgaagctgca gtaaagggaag atgaagaaga 1800
agtttcagat aagggcagtg attctgaaga agaagaaacc aatagagatt cccaaagtga 1860
gaaagatgat ggtagtgaac gagactctga tagagagcaa gatgaaaaac aaaacaaaga 1920
tgatgaagca gagtggcaag aattacaaca aagcatacag cgaaaagaga gagctctatt 1980
ggaaacccaa tcaaaaataa cacatcctgt gtatagcctt tactttcctg aggaaaaaca 2040
agaatggtgg tggctttaca ttgcagatag gaaggagcag acattaatat ccatgccata 2100
tcatgtgtgt acgctgaaag atacagagga ggtagagctg aagtttcctg caccaggcaa 2160
gcctggaaat tatcagtata ctgtgtttct gagatcagac tcctatatgg gtttgatca 2220
gattaaacca ttggaagttk ggaagttcat gaggtgaag cctgtgccag aaaatcacc 2280
acagtgggat acagcaatag agggggatga agaccaggag gacagtgagg gctttgaaga 2340
tagcttttag ggaggaagag ggagggagga aggaaggtgg tggacttaag gcagttactc 2400
tggaatggga cccacagtgt ttgacccat attttggcaa ttttttttgc ccgtttttng 2460
gaagtgtttt ccntnaancc caggaacat tacagaaccg 2500

```

```

<210> 245
<211> 1338
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (133)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (867)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1338)
<223> n equals a,t,g, or c

```

<400> 245

cttccgggttc	tccgggcagc	tgccactgct	gtagcttctg	ccacctgcca	cgaccggggc	60
tctccctggc	gtttggtcac	ctctgcttca	ttctccaccg	cgccataggt	ccctcttgga	120
gccagcgtgg	cgngcctggc	ggctcccggg	tggtgagaga	gcgggtccggg	aacgatgaag	180
gcctcgcagt	gctgctgctg	tctcagccac	ctcttggtct	ccgtcctcct	cctgctgttg	240
ctgcctgaac	taagcgggyc	cctggmagtc	ctgctgcagg	cagccgaggc	cgcgccaggt	300
yttggggcctc	ctgaccctag	accaggacat	taccgccgct	gccaccgggc	cctwaccct	360
gcccagcagc	cgggcccgtg	tctggctgaa	gctgcggggg	ccgcggggct	ccgagggagg	420
caatggcagc	aaccctgttg	ccgggcttga	gacggacgat	cacggaggga	aggccgggga	480
argctcggtg	ggtggcggcc	ttgctgtgag	ccccaaacct	ggcgacaagc	ccatgaccca	540
gcggggcctg	accgtgttga	tggtggtgag	cggcgcggtg	ctggtgtact	tcgtggtcag	600
gacggtcagg	atgagaagaa	gaaaccgaaa	gactaggaga	tatggagttt	tggaactaa	660
catagaaaat	atggaattga	cacctttaga	acaggatgat	gaggatgatg	acaacacgtt	720
gtttgatgcc	aatcatcctc	gaagataaga	atgtgccttt	tgatgaaaga	actttatctt	780
tctacaatga	agagtggaa	ttctatgttt	aaggaaataag	aagccactat	atcaatgttg	840
gggggggtatt	taagttacat	atatttnaac	aacctttaat	ttgctgttgc	aataaaatacc	900
gtatcctttt	attatatctt	taatatgtata	gaagtactct	gttaatgggc	tcagagatgt	960
tggggataaaa	gtatactgta	ataatttatc	tgtttgaaaa	ttactataaa	acggtgtttt	1020
ctgrtcggtt	tttgtttcc	gcttaccata	tgattgtaaa	ttgttttatg	tattaatcag	1080
ttaatgctaa	ttatttttgc	tgatgtcata	tgtaaagag	ctataaattc	caacaaccaa	1140
ctggtgtgta	aaaataat	aaaatytcct	ttactgaaag	gtatttccca	tttttgtggg	1200
gaaaagaagc	caaatatt	actttgtgtt	ggggttttta	aaatattaag	aaatgtctaa	1260
gttattgttt	gcaaaacaat	aaatatgatt	ttaaattctc	ttaaaaaaaa	aaaaaaaaac	1320
cccggggggg	ggcccggg					1338

<210> 246

<211> 654

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (651)

<223> n equals a,t,g, or c

<400> 246

gaattcggca	cgaggcagct	tgtgctttta	aggaggtgtt	caaagcatgt	ctgagcagag	60
acttttgggc	tctgttttaa	ttaatacttt	aaaataattc	atattttaaa	tatcaratgt	120
ttccataaag	aggaggatgt	ttaaatgcct	ccagactaca	ttccttttta	ttsccttgatt	180
ttacctggga	gtccaaagtt	caattcccat	aaagcaagcg	ttttatgtgt	cactttcaat	240
atacatccga	ttgccatgct	taagatgcaa	tatgggctgc	ggaaataggt	taaccacag	300
gctcccagg	cccagtgtag	aagggtgagag	attcgtgtaa	aatgattcaa	ataaaaggaa	360
gaccctggcc	gggtgccgta	rtcacgcct	gtaatcccag	cactttggga	ggccgaagcg	420
agtggatgac	gaggttagga	gttgagagacc	agcctggcca	acatcgtgaa	accccgctctc	480
tactaaaaat	acaaaaatta	gccgggcatg	gtggcaggca	cctgtaatcc	tagctagttg	540
ggaggctgag	gcaggagaat	cgtttgaatc	tgggagttgg	agggtgtcag	tgagctgaga	600
tcgcgccaca	gcactccagc	ctgggtgaca	gggtgagact	ctgtctcaaa	naga	654

<210> 247

<211> 1146

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

10004360-120701

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (37)

<223> n equals a,t,g, or c

<400> 247

aaaaaaaaacc	caggggaacn	ttggggggccg	ctttnnnttc	cccctccagg	ccattggggga	60
attcttcaag	ttaatcctgc	tttgctcttg	gccaacaggg	cttgtagggg	ggagagaccc	120
aggatcatca	aggggttcga	gtgcaagcct	cactcccagc	cctggcaggc	agccctgttc	180
gagaagacgc	ggctactctg	tggggcgacg	ctcatcgccc	ccagatggct	cctgacagca	240
gcccactgcc	tcaagccccg	ctacatagtt	cacctggggc	agcacaacct	ccagaaggag	300
gagggctgtg	agcagaccgg	gacagccact	gagtccttcc	cccaccccgg	cttcaacaac	360
agcctcccca	acaaagacca	ccgcaatgac	atcatgctgg	tgaagatggc	atcgccagtc	420
tccatcacct	gggctgtgcg	acccctcacc	ctctcctcac	gctgtgtcac	tgctggcacc	480
agctgyctca	tttccggctg	gggcagmacg	tccagccccc	agttacgcct	gcctcacacc	540
ttgsgatgcg	ccaacatcac	catcattgag	caccagaagt	gtgagaacgc	ctaccccggc	600
aacatcacag	acaccatggg	gtgtgccagc	gtgcaggaag	ggggcaagga	ctcctgccag	660
ggtgactccg	ggggccctct	ggtctgtaac	cagtctcttc	aaggcattat	ctcctggggc	720
caggatccgt	gtgcatcac	ccgaaagcct	ggtgtctaca	cgaaagtctg	caaatatgtg	780
gactggatcc	aggagacgat	gaagaacaat	tagactggac	ccacccacca	cagcccatca	840
ccctccattt	ccacttgggt	tttggttcct	gttcaactctg	ttaataagaa	accctaagcc	900
aagaccctct	acgaacattc	tttgggcctc	ctggactaca	ggagatgctg	tcacttaata	960
atcaacctgg	ggttcgaaat	cagtgaagacc	tggattcaaa	ttctgccttg	aaatattgtg	1020
actctgggaa	tgacaacacc	tggtttgttc	tctgttgtat	ccccagcccc	aaagacagct	1080
cctggccata	tatcaagggt	tcaataaata	tttgctaaat	gaaaaaraaa	aaaaaaaaaa	1140
actcga						1146

<210> 248

<211> 1443

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (776)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (907)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1288)

10004860.120701

<223> n equals a,t,g, or c

<400> 248

ataaactgaa ataggtcatg caaatataaa atattatattt taaattatitt gtcataagaa	60
acgatgggtgg ccatattttt ctttaataat ggaaaaaatg tggtagcat tctktggaag	120
gtgggtcatca gatagtagac attttctagg atttattttct acctgcatat gtggaaatgt	180
gtactacttt agatttatwt aatggcagct aactcagagg catcaaaatg tgctaattggt	240
gtaatatggc ctttgtcttg ctgtyctggt ttgtargcct tcaatcaagc argggcaggg	300
ccgtacagtg aacttgtcct ttgscagacg ccagcgtctg cccctgaccc cgtctccact	360
ctctgtgtcc tggaggagga gccccttgat gcytaccctg attcaccttc tgcgtgcctt	420
gtactgaact gggagagcc gtgcaataac ggatctgaaa tccttgctta caccattgat	480
ctaggagaca ctagcattac cgtgggcaac accaccatgc atgttatgaa agatctcctt	540
ccagaaacca cctaccggtg agtgcaaggg agtagaaatc tgcatacagca catcagcact	600
tggggatcta agtaaacctc tcggggaaaa tgaccaagtg gatgtcatct cccagctggt	660
tctaagagcc cagatgtcca gagtattgtc tcaccttgat ccctcaggcc agaagacctg	720
tgaaaaagcc aacttggttc agggactcac tggacggttt tgtgtccact ytaacntgca	780
ccgtctctac cccagagtgg actcaratcc tcaagtcatc ctctgaacat tgrrgtcaga	840
aattataaaa gggctttggc aatatgttag cccaagaatt tggcttcttc cagaaattgt	900
gccgacntta acagtggctt aaatgatggt aaaactttta agatttctaa aaggrrtgga	960
ttggagatac gttgactttt attaaacmac ctatagtgtt ttaatgaytt ctaaaaaat	1020
atctggagct caggggttca actgagggaa cacatgttga gratcattgt ttactaatta	1080
aatgccaggt aaccggttga aattatcaaa aacatcttcc acgtaccaga aagcacctca	1140
gaggatagtt ctgttatgga gaagatgaaa tggtttagta gtgtaggaaac tatggaaagg	1200
tgagcttaga tttggatagt aaaacctcaa gacctattt aaaaagtatt ttatgaatgc	1260
agcataaata atttaattca gtgttaanat gccaaaggct gtatatgtgag ctgaatgtga	1320
aaagaaactc acattggggag aatgccacct tttccttata agatagcttt gaagatacca	1380
tttttagacag atggaaattg aatagcttta gaaaaggcaa atgtttgatc ttggggaaaa	1440
aaa	1443

<210> 249

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals stop translation

<400> 249

Met	Leu	Ser	Thr	Gly	Ile	Glu	Val	Ala	Arg	Pro	Pro	Ala	Thr	Leu	Leu
1					5				10					15	

Gly	Leu	Met	Phe	Val	Leu	Thr	Gly	Met	Pro	Arg	Gly	Leu	Arg	Xaa
			20					25					30	

<210> 250

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

10004560-120701

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (116)
 <223> Xaa equals stop translation

<400> 250
 Met Asn Val Val Ile Val Ile Ile Leu Phe Ser Phe Asp Ser Val Gly
 1 5 10 15
 Thr Met Phe Ser Cys Asn Arg Ile Pro Lys Ile Thr Val Leu Asn Lys
 20 25 30
 Leu Lys Phe Xaa Cys Glu Val Leu Leu Arg Ile Gln Thr Ile Gln Gly
 35 40 45
 Phe Tyr Arg Cys Thr Arg Ile Ser Arg Tyr Lys Gly Ile Phe Pro Asp
 50 55 60
 Phe Cys Gln Ser Gln Cys Met Gly Cys Asn Pro Glu Ser Xaa Met Ala
 65 70 75 80
 Val Pro Ala Leu Val Thr Pro Ile Leu Ala His Arg Lys Lys Glu Lys
 85 90 95
 Gly Met Cys Leu Phe Thr Leu Ile Ile Ala Pro Thr Arg Cys Thr His
 100 105 110
 Tyr Phe Cys Xaa
 115

<210> 251
 <211> 103
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals stop translation

<400> 251
 Met Ser Ser Ala Lys Ile Val Arg Gln Arg Gly Ala Val Pro Thr Tyr
 1 5 10 15
 Tyr Thr Thr Glu Ala Gly Glu Ile Ile Phe Leu Val Leu Asn Trp Ser
 20 25 30
 Leu Ser Ile Leu His Ile Val Asp Val Leu Cys Ser Lys Pro Glu Lys
 35 40 45
 Ser Val Thr Glu Asp Ala Ala Ser Gly Leu Ser Gln Arg Met Thr Ala
 50 55 60

10004360.120701

Leu Val Trp Arg Lys Gly Pro Asp Gly Gly Ser Arg Lys Pro Ile Leu
65 70 75 80

Leu Leu Phe Phe Phe Leu Pro Leu Ile Leu Cys Phe His Ser Phe Ile
85 90 95

His Ser Ser Asn Ile Cys Xaa
100

<210> 252
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 252
Met Ile Leu Phe Pro Gln Xaa Ala Leu Arg Leu Gly Xaa Trp Pro Arg
1 5 10 15

Thr Trp Ser Ile Leu Xaa Lys Tyr Ser Val Asn Phe Phe Ser Ala Tyr
20 25 30

Ser Pro Met Gly Ala Val Gly Thr Glu Phe
35 40

<210> 253
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals stop translation

<400> 253

10004350-120701

Met Ile Ile Leu Leu Leu Phe Met Leu Leu Asn Asn Val Val Leu Val
 1 5 10 15

Gln Glu Asp Asn Cys Gln Arg Lys Asn Thr Val Gln Glu Arg Arg Xaa
 20 25 30

Trp Ser Gln Trp Xaa
 35

<210> 254

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals stop translation

<400> 254

Met Ala Ala Xaa Pro Pro Gly Cys Thr Pro Pro Xaa Leu Leu Asp Ile
 1 5 10 15

Ser Trp Leu Thr Glu Ser Leu Gly Ala Gly Gln Pro Val Pro Val Glu
 20 25 30

Cys Arg His Arg Leu Glu Val Ala Gly Pro Arg Lys Gly Pro Leu Ser
 35 40 45

Pro Ala Trp Met Pro Ala Tyr Ala Cys Gln Arg Pro Thr Pro Leu Thr
 50 55 60

His His Asn Thr Gly Leu Ser Glu Leu Leu Glu His Gly Val Cys Glu
 65 70 75 80

Glu Val Glu Arg Val Arg Arg Ser Glu Arg Tyr Gln Thr Met Lys Val
 85 90 95

Arg Arg Ala Gly Leu Gly Pro Thr Pro Gly Met Ser Cys Pro Gly Asn
 100 105 110

Asp Asn Thr Val His Thr Met His Gly Glu Ala Asn Arg Gly Ser Xaa
 115 120 125

10004360-120701


```
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 255
Met Ser Ile Leu Cys Cys Pro Xaa Leu Cys Leu Phe Phe Ser Phe Cys
  1              5              10              15
Ile Ser Ser Gly Ser Cys Pro Phe Ser His Val Ser Gln Leu Ser Phe
      20              25              30
Ile Ala Thr Phe Ser Gln Ser Ser Pro Val Leu Leu Val Pro Ala Tyr
      35              40              45
Asn Thr Tyr Leu Ser Phe Leu Ala Phe Leu Asp Cys Ala Ser Leu Thr
      50              55              60
Ser Thr Xaa
      65

```

```
<220>
<221> SITE
<222> (69)
<223> Xaa equals stop translation
```

```

<400> 256
Met Ser Thr Phe Gln Leu Leu Leu Leu Ile Leu Ala Gln Ser Thr Tyr
  1                      5                      10                      15
Lys Ile Lys Ser Lys Pro Leu His Met Thr Asn His Thr Leu Leu Asn
                      20                      25                      30
Ser Pro Gly Leu Asn Pro Ser Ser Pro Thr Leu Asn Phe Lys Thr Gln
                      35                      40                      45
Gln His Glu Ser Val Ser Tyr Ala Cys Cys His Met Arg Ser Leu His
  50                      55                      60
His Ala Phe Ala Xaa
  65

```

<210> 257
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals stop translation

<400> 257
 Met Val Ser Val Val Leu Ile Phe Ser Phe Leu Ser Leu Thr Ile Ser
 1 5 10 15
 Thr Thr Ala Ser Ala Tyr Asn Gly Asn Asp Thr Gln Gly Trp Asn Asp
 20 25 30
 Lys Phe His Xaa Xaa Ser Val Lys Thr Gln Thr Xaa
 35 40

<210> 258
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals stop translation

<400> 258
 Met Ile Ser Asp Ala Gly Ala Gly Phe Gly Val Phe Leu Leu Val Pro
 1 5 10 15
 Arg Ala Gly His Cys Trp Gly Ala Gly Lys Pro Leu Pro Ser Cys Pro
 20 25 30
 Ser Val Ala Ser Ile Pro Ser Trp Val Leu Pro Ser Phe Leu Glu Arg
 35 40 45
 Gly Arg Xaa
 50

<210> 259

10004860-120701

<211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals stop translation

<400> 259
 Met Val Gln Thr Ile Gln Asp Phe Leu Ser Leu Phe Ser Thr Pro Ile
 1 5 10 15

Phe Leu Leu Leu Leu Met Phe Glu Thr Leu Ser Leu Ala Pro Ala Trp
 20 25 30

Leu Lys Pro Leu Arg Val Thr Ser His Ser Xaa
 35 40

<210> 260
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals stop translation

<400> 260
 Met Ile Leu Met Pro Gly Leu Gly Thr Ser Arg Gln Arg Ser Val Pro
 1 5 10 15

Phe Val Pro Thr Leu Asn Ala Ser Thr Pro Gly Ala Met Thr Gly Pro
 20 25 30

Thr Ala Thr Leu Thr Ser Cys Gln Trp Thr Thr Ala Cys Arg Val Ser
 35 40 45

Trp Ala Asn Gly Trp Thr Ser Leu Arg Thr Phe Arg Xaa
 50 55 60

<210> 261
 <211> 36
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals stop translation

<400> 261
 Met Ser His His Ala Gln Pro Arg Phe Leu Leu Ile Thr Met Leu Leu
 1 5 10 15

10004300-120701

Gln Glu Ala Lys Pro Val Ser Asn Ile Pro His Leu Leu Glu Ser Trp
 20 25 30

Tyr Phe Gly Xaa
 35

<210> 262
 <211> 38
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals stop translation

<400> 262
 Met Asn Ser Leu Phe Trp Met Ile Leu Leu Pro Val Ser Gln Asp Gln
 1 5 10 15

Val Val Glu Gly Leu Gln Gly Gly Phe Ser Gln Ile His Met Arg Ile
 20 25 30

Leu Arg Lys His Leu Xaa
 35

<210> 263
 <211> 211
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (211)
 <223> Xaa equals stop translation

<400> 263
 Met Ser Arg Ser Xaa Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala
 1 5 10 15

Ala Ser Ile Tyr Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala
 20 25 30

Leu His Gln Gly Asp Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile
 35 40 45

Leu Leu Lys Leu Asp Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg
 50 55 60

Met Gln Asp Leu Asp Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala
 65 70 75 80

10004360 120701

Trp Val Ser Leu Ala Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr
85 90 95

Ile Phe Gln Glu Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Leu
100 105 110

Asn Gly Gln Ala Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala
115 120 125

Glu Gly Leu Leu Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu
130 135 140

Thr Leu Val Asn Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro
145 150 155 160

Glu Val Thr Asn Arg Tyr Leu Ser Gln Leu Lys Asp Ala His Arg Ser
165 170 175

His Pro Phe Ile Lys Glu Tyr Gln Ala Lys Glu Asn Asp Phe Asp Arg
180 185 190

Leu Val Leu Gln Tyr Ala Pro Ser Ala Glu Ala Gly Pro Glu Leu Ser
195 200 205

Gly Pro Xaa
210

<210> 264

<211> 548

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (548)

<223> Xaa equals stop translation

<400> 264

Met Glu Asp Ser Glu Ala Leu Gly Phe Glu His Met Gly Leu Asp Pro
1 5 10 15

Arg Leu Leu Gln Ala Val Thr Asp Leu Gly Trp Ser Arg Pro Thr Leu
20 25 30

Ile Gln Glu Lys Ala Ile Pro Leu Ala Leu Glu Gly Lys Asp Leu Leu
35 40 45

Ala Arg Ala Arg Thr Gly Ser Gly Lys Thr Ala Ala Tyr Ala Ile Pro
50 55 60

Met Leu Gln Leu Leu Leu His Arg Lys Ala Thr Gly Pro Val Val Glu
65 70 75 80

Gln Ala Val Arg Gly Leu Val Leu Val Pro Thr Lys Glu Leu Ala Arg
85 90 95

10004560-120701

Gln	Ala	Gln	Ser	Met	Ile	Gln	Gln	Leu	Ala	Thr	Tyr	Cys	Ala	Arg	Asp
100				105				110							
Val	Arg	Val	Ala	Asn	Val	Ser	Ala	Ala	Glu	Asp	Ser	Val	Ser	Gln	Arg
115				120				125							
Ala	Val	Leu	Met	Glu	Lys	Pro	Asp	Val	Val	Val	Gly	Thr	Pro	Ser	Arg
130				135				140							
Ile	Leu	Ser	His	Leu	Gln	Gln	Asp	Ser	Leu	Lys	Leu	Arg	Asp	Ser	Leu
145				150				155				160			
Glu	Leu	Leu	Val	Val	Asp	Glu	Ala	Asp	Leu	Leu	Phe	Ser	Phe	Gly	Phe
165				170				175							
Glu	Glu	Glu	Leu	Lys	Ser	Leu	Leu	Cys	His	Leu	Pro	Arg	Ile	Tyr	Gln
180				185				190							
Ala	Phe	Leu	Met	Ser	Ala	Thr	Phe	Asn	Glu	Asp	Val	Gln	Ala	Leu	Lys
195				200				205							
Glu	Leu	Ile	Leu	His	Asn	Pro	Val	Thr	Leu	Lys	Leu	Gln	Glu	Ser	Gln
210				215				220							
Leu	Pro	Gly	Pro	Asp	Gln	Leu	Gln	Gln	Phe	Gln	Val	Val	Cys	Glu	Thr
225				230				235				240			
Glu	Glu	Asp	Lys	Phe	Leu	Leu	Leu	Tyr	Ala	Leu	Leu	Lys	Leu	Ser	Leu
245				250				255							
Ile	Arg	Gly	Lys	Ser	Leu	Leu	Phe	Val	Asn	Thr	Leu	Glu	Arg	Ser	Tyr
260				265				270							
Arg	Leu	Arg	Leu	Phe	Leu	Glu	Gln	Phe	Ser	Ile	Pro	Thr	Cys	Val	Leu
275				280				285							
Asn	Gly	Glu	Leu	Pro	Leu	Arg	Ser	Arg	Cys	His	Ile	Ile	Ser	Gln	Phe
290				295				300							
Asn	Gln	Gly	Phe	Tyr	Asp	Cys	Val	Ile	Ala	Thr	Asp	Ala	Glu	Val	Leu
305				310				315				320			
Gly	Ala	Pro	Val	Lys	Gly	Lys	Arg	Arg	Gly	Arg	Gly	Pro	Lys	Gly	Asp
325				330				335							
Lys	Ala	Ser	Asp	Pro	Glu	Ala	Gly	Val	Ala	Arg	Gly	Ile	Asp	Phe	His
340				345				350							
His	Val	Ser	Ala	Val	Leu	Asn	Phe	Asp	Leu	Pro	Pro	Thr	Pro	Glu	Ala
355				360				365							
Tyr	Ile	His	Arg	Ala	Gly	Arg	Thr	Ala	Arg	Ala	Asn	Asn	Pro	Gly	Ile
370				375				380							
Val	Leu	Thr	Phe	Val	Leu	Pro	Thr	Glu	Gln	Phe	His	Leu	Gly	Lys	Ile
385				390				395				400			
Ile	Glu	Leu	Leu	Ser	Gly	Glu	Asn	Arg	Gly	Pro	Ile	Leu	Leu	Pro	Tyr

405

410

415

Gln Phe Arg Met Glu Glu Ile Glu Gly Phe Arg Tyr Arg Cys Arg Asp
420 425 430

Ala Met Arg Ser Val Thr Lys Gln Ala Ile Arg Glu Ala Arg Leu Lys
435 440 445

Glu Ile Lys Glu Glu Leu Leu His Ser Glu Lys Leu Lys Thr Tyr Phe
450 455 460

Glu Asp Asn Pro Arg Asp Leu Gln Leu Leu Arg His Asp Leu Pro Leu
465 470 475 480

His Pro Ala Val Val Lys Pro His Leu Gly His Val Pro Asp Tyr Leu
485 490 495

Val Pro Pro Ala Leu Arg Gly Leu Val Arg Pro His Lys Lys Arg Lys
500 505 510

Lys Leu Ser Ser Ser Cys Arg Lys Ala Lys Arg Ala Lys Ser Gln Asn
515 520 525

Pro Leu Arg Ser Phe Lys His Lys Gly Lys Lys Phe Arg Pro Thr Ala
530 535 540

Lys Pro Ser Xaa
545

<210> 265

<211> 299

<212> PRT

<213> Homo sapiens

<400> 265

Met Thr Thr Val Pro Pro Ser Pro Arg Pro Met Ser Arg Pro Ser Glu
1 5 10 15

Arg Asn Met Arg Arg Pro Arg Gly Pro Ser Pro Leu Pro Ala Ser Pro
20 25 30

Arg Asn Ser Thr Pro Asp Glu Pro Asp Val His Phe Ser Lys Lys Phe
35 40 45

Leu Asn Val Phe Met Ser Gly Arg Ser Arg Ser Ser Ser Ala Glu Ser
50 55 60

Phe Gly Leu Phe Ser Cys Ile Ile Asn Gly Glu Glu Gln Glu Gln Thr
65 70 75 80

His Arg Ala Ile Phe Arg Phe Val Pro Arg His Glu Asp Glu Leu Glu
85 90 95

Leu Glu Val Asp Asp Pro Leu Leu Val Glu Leu Gln Ala Glu Asp Tyr
100 105 110

Trp Tyr Glu Ala Tyr Asn Met Arg Thr Gly Ala Arg Gly Val Phe Pro

10004360-120701

115 120 125
 Ala Tyr Tyr Ala Ile Glu Val Thr Lys Glu Pro Glu His Met Ala Ala
 130 135 140
 Leu Ala Lys Asn Ser Asp Trp Val Asp Gln Phe Arg Val Lys Phe Leu
 145 150 155 160
 Gly Ser Val Gln Val Pro Tyr His Lys Gly Asn Asp Val Leu Cys Ala
 165 170 175
 Ala Met Gln Lys Ile Ala Thr Thr Arg Arg Leu Thr Val His Phe Asn
 180 185 190
 Pro Pro Ser Ser Cys Val Leu Glu Ile Ser Val Arg Gly Val Lys Ile
 195 200 205
 Gly Val Lys Ala Asp Asp Ser Gln Glu Ala Lys Gly Asn Lys Cys Ser
 210 215 220
 His Phe Phe Gln Leu Lys Asn Ile Ser Phe Cys Gly Tyr His Pro Lys
 225 230 235 240
 Asn Asn Lys Tyr Phe Gly Phe Ile Thr Lys His Pro Ala Asp His Arg
 245 250 255
 Phe Ala Cys His Val Phe Val Ser Glu Asp Ser Thr Lys Ala Leu Ala
 260 265 270
 Glu Ser Val Gly Arg Ala Phe Gln Gln Phe Tyr Lys Gln Phe Val Glu
 275 280 285
 Tyr Thr Cys Pro Thr Glu Asp Ile Tyr Leu Glu
 290 295

<210> 266

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals stop translation

<400> 266

Leu Leu Tyr Leu Leu Lys Val Xaa Val Ile Phe Val Phe Ser Ser Ser
 1 5 10 15

Lys Gly Val Thr Leu Val Ser Met Asn Leu Thr Ser Phe Phe Val Ser
 20 25 30

100004360-120701

Ser Val Leu Ala Cys Phe Ser Xaa
 35 40

<210> 267

<211> 594

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 267

Met Pro Ala Ser Ser Leu Glu Ser Arg Ser Phe Leu Leu Ala Lys Lys
 1 5 10 15

Ser Gly Glu Asn Val Ala Lys Phe Ile Ile Asn Ser Tyr Pro Lys Tyr
 20 25 30

Phe Gln Lys Asp Ile Ala Glu Pro His Ile Pro Cys Leu Met Pro Glu
 35 40 45

Tyr Phe Glu Pro Gln Ile Lys Asp Ile Ser Glu Ala Ala Leu Lys Glu
 50 55 60

Arg Ile Glu Leu Arg Lys Val Lys Ala Ser Val Asp Met Phe Asp Gln
 65 70 75 80

Leu Leu Gln Ala Gly Thr Thr Val Ser Leu Glu Thr Thr Asn Ser Leu
 85 90 95

Leu Asp Xaa Leu Cys Tyr Tyr Gly Asp Gln Glu Pro Ser Thr Asp Tyr
 100 105 110

His Phe Gln Gln Thr Gly Gln Ser Glu Ala Leu Glu Glu Glu Asn Asp
 115 120 125

Glu Thr Ser Arg Arg Lys Ala Gly His Gln Phe Gly Val Thr Trp Arg
 130 135 140

Ala Lys Asn Asn Ala Glu Arg Ile Phe Ser Leu Met Pro Glu Lys Asn
 145 150 155 160

Glu His Ser Tyr Cys Thr Met Ile Arg Gly Met Val Lys His Arg Ala
 165 170 175

Tyr Glu Gln Ala Leu Asn Leu Tyr Thr Glu Leu Leu Asn Asn Arg Leu
 180 185 190

His Ala Asp Val Tyr Thr Phe Asn Ala Leu Ile Glu Ala Thr Val Cys
 195 200 205

Ala Ile Asn Glu Lys Phe Glu Glu Lys Trp Ser Lys Ile Leu Glu Leu
 210 215 220

Leu Arg His Met Val Ala Gln Lys Val Lys Pro Asn Leu Gln Thr Phe

10004360-120701

225		230		235		240
Asn Thr Ile Leu Lys Cys Leu Arg Arg Phe His Val Phe Ala Arg Ser						
	245			250		255
Pro Ala Leu Gln Val Leu Arg Glu Met Lys Ala Ile Gly Ile Glu Pro						
	260			265		270
Ser Leu Ala Thr Tyr His His Ile Ile Arg Leu Phe Asp Gln Pro Gly						
	275			280		285
Asp Pro Leu Lys Arg Ser Ser Phe Ile Ile Tyr Asp Ile Met Asn Glu						
	290			295		300
Leu Met Gly Lys Arg Phe Ser Pro Lys Asp Pro Asp Asp Asp Lys Phe						
	305			310		315
Phe Gln Ser Ala Met Ser Ile Cys Ser Ser Leu Arg Asp Leu Glu Leu						
	325			330		335
Ala Tyr Gln Val His Gly Leu Leu Lys Thr Gly Asp Asn Trp Lys Phe						
	340			345		350
Ile Gly Pro Asp Gln His Arg Asn Phe Tyr Tyr Ser Lys Phe Phe Asp						
	355			360		365
Leu Ile Cys Leu Met Glu Gln Ile Asp Val Thr Leu Lys Trp Tyr Glu						
	370			375		380
Asp Leu Ile Pro Ser Ala Tyr Phe Pro His Ser Gln Thr Met Ile His						
	385			390		395
Leu Leu Gln Ala Leu Asp Val Ala Asn Arg Leu Glu Val Ile Pro Lys						
	405			410		415
Ile Trp Lys Asp Ser Lys Glu Tyr Gly His Thr Phe Arg Ser Asp Leu						
	420			425		430
Arg Glu Glu Ile Leu Met Leu Met Ala Arg Asp Lys His Pro Pro Glu						
	435			440		445
Leu Gln Val Ala Phe Ala Asp Cys Ala Ala Asp Ile Lys Ser Ala Tyr						
	450			455		460
Glu Ser Gln Pro Ile Arg Gln Thr Ala Gln Asp Trp Pro Ala Thr Ser						
	465			470		475
Leu Asn Cys Ile Ala Ile Leu Phe Leu Arg Ala Gly Arg Thr Gln Glu						
	485			490		495
Ala Trp Lys Met Leu Gly Leu Phe Arg Lys His Asn Lys Ile Pro Arg						
	500			505		510
Ser Glu Leu Leu Asn Glu Leu Met Asp Ser Ala Lys Val Ser Asn Ser						
	515			520		525
Pro Ser Gln Ala Ile Glu Val Val Glu Leu Ala Ser Ala Phe Ser Leu						
	530			535		540

10004350 "LEU" 1

Pro Ile Cys Glu Gly Leu Thr Gln Arg Val Met Ser Asp Phe Ala Ile
545 550 555 560

Asn Gln Glu Gln Lys Glu Ala Leu Ser Asn Leu Thr Ala Leu Thr Ser
565 570 575

Asp Ser Asp Thr Asp Ser Ser Ser Asp Ser Asp Ser Asp Thr Ser Glu
580 585 590

Gly Lys

<210> 268

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals stop translation

<400> 268

Met Lys Leu Asn Leu Cys Ile Pro Asn Trp Ala Arg Cys Pro Leu Leu
1 5 10 15

Leu Leu Phe Pro Gln Leu Leu Pro Phe Gln Gly Glu Asp Asp Asp Pro
20 25 30

Leu Lys Ala Lys Ala Ala Asn Leu Val Glu Ala Val Pro Trp Gly Ile
35 40 45

Lys Ala Pro Ser Phe Gln Val Thr Cys Leu Val Arg Val Gln Leu Gln
50 55 60

Ser Cys Thr Pro Ser Arg Pro Ser Thr Leu Leu Ala Thr Ser Gln Ser
65 70 75 80

Pro Gly Arg Ile Ser Cys Tyr Ser Pro Leu Ser His Leu Pro Pro Val
85 90 95

Thr Thr Ser Ile Gln Pro Ser Pro Val Met Val Pro Phe Gln Tyr Gln
100 105 110

Ala Phe Leu Leu Gln Val Lys Glu Pro Ala Ala Gln Thr Leu Leu Gly
115 120 125

Gln Gln Xaa
130

<210> 269

<211> 21

<212> PRT

<213> Homo sapiens

10004560-120701

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals stop translation

<400> 269
 Met Arg Tyr His Ala Gln Leu Ile Phe Cys Ile Phe Cys Xaa Phe Val
 1 5 10 15

 Phe Val Xaa Lys Xaa
 20

<210> 270
 <211> 159
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (122)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 270
 Met Thr Gly Thr Tyr Ser Gly Gln Phe Val Met Glu Gly Phe Leu Asn
 1 5 10 15

 Leu Lys Trp Ser Arg Phe Ala Arg Val Val Leu Thr Arg Ser Ile Ala
 20 25 30

 Ile Ile Pro Thr Leu Leu Val Ala Val Phe Gln Asp Val Glu His Leu
 35 40 45

10004360.120701

Thr Gly Met Asn Asp Phe Leu Asn Val Leu Gln Ser Leu Gln Leu Pro
50 55 60

Phe Ala Leu Ile Pro Ile Leu Thr Phe Thr Ser Leu Arg Pro Val Met
65 70 75 80

Ser Asp Phe Ala Asn Gly Leu Gly Trp Arg Ile Ala Gly Gly Ile Trp
85 90 95

Ser Tyr His Leu Phe His His Met Tyr Phe Val Val Xaa Tyr Val Arg
100 105 110

Asp Leu Arg His Val Xaa Leu Tyr Val Xaa Ala Ala Val Val Xaa Arg
115 120 125

Gly Leu Ser Gly Leu Cys Val Leu Leu Gly Leu Ala Met Phe Asp Cys
130 135 140

Thr Gly His Val Leu Pro Gly Leu Trp Ala Tyr Gly Lys His Leu
145 150 155

<210> 271

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (219)

<223> Xaa equals stop translation

<400> 271

Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu
1 5 10 15

Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys
20 25 30

Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys
35 40 45

Gly Asp Leu Leu Asn Ala His Tyr Asp Gly Tyr Leu Ala Lys Asp Gly
50 55 60

Ser Lys Phe Tyr Cys Ser Arg Thr Gln Asn Glu Gly His Pro Lys Trp
65 70 75 80

Phe Val Leu Gly Val Gly Gln Val Ile Lys Gly Leu Asp Ile Ala Met
85 90 95

Thr Asp Met Cys Pro Gly Glu Lys Arg Lys Val Val Ile Pro Pro Ser
100 105 110

Phe Ala Tyr Gly Lys Glu Gly Tyr Ala Glu Gly Lys Ile Pro Pro Asp
115 120 125

Ala Thr Leu Ile Phe Glu Ile Glu Leu Tyr Ala Val Thr Lys Gly Pro

10004850.120701

130 135 140

Arg Ser Ile Glu Thr Phe Lys Gln Ile Asp Met Asp Asn Asp Arg Gln
 145 150 155 160

Leu Ser Lys Ala Glu Ile Asn Leu Tyr Leu Gln Arg Glu Phe Glu Lys
 165 170 175

Asp Glu Lys Pro Arg Asp Lys Ser Tyr Gln Asp Ala Val Leu Glu Asp
 180 185 190

Ile Phe Lys Lys Asn Asp His Asp Gly Asp Gly Phe Ile Ser Pro Lys
 195 200 205

Glu Tyr Asn Val Tyr Gln His Asp Glu Leu Xaa
 210 215

<210> 272
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals stop translation

<400> 272
 Met Trp Val Ile Arg Val Phe Gln Lys Thr Phe Leu Phe Phe Val Leu
 1 5 10 15

Phe Trp Ser Val His Cys Ile Ser Asp Lys Phe Gly Cys Leu Trp His
 20 25 30

Val Cys Met Lys Arg Glu Gly Asp Xaa Asn Cys Leu Ser Phe Ser Xaa
 35 40 45

Leu Xaa
 50

<210> 273
 <211> 122
 <212> PRT
 <213> Homo sapiens

<220>

10004360 120701

. SITE
 > (7)
 > Xaa equals any of the naturally occurring L-amino acids

>
 > SITE
 > (20)
 > Xaa equals any of the naturally occurring L-amino acids

>
 > SITE
 > (122)
 > Xaa equals stop translation

> 273

Pro Ser Gln Thr Glu Xaa Phe Ala Ala Cys Gly Gly His Ser Leu
 5 10 15

Leu Val Xaa Leu Pro Leu Gly Leu Pro Phe Cys Pro Arg Ala Ala
 20 25 30

Cys Asp Leu Pro Phe Ser Leu Pro Ser Phe Pro Gly Gln Ala Arg
 35 40 45

Gly Gly Ala Glu Lys Gln Gly Ala Glu Gly Arg Gly Leu Gln Val
 50 55 60

Pro Arg Gly Gln Arg Thr Phe Gln Val Ser Arg Thr Ala Pro Ala
 70 75 80

Pro Arg Ser Arg Gln Pro Arg Pro Pro Ala Ala Leu Pro Ala Leu
 85 90 95

Phe Gly Gly Arg Gly Val Ala Lys Gly Arg Phe Leu Cys Phe Trp
 100 105 110

Leu Tyr Met Leu Arg Ile Asp Gln Xaa
 115 120

0> 274

1> 88

2> PRT

3> Homo sapiens

0>

1> SITE

2> (53)

3> Xaa equals any of the naturally occurring L-amino acids

0>

1> SITE

2> (88)

3> Xaa equals stop translation

10> 274

Thr Ala Phe Cys Ser Leu Leu Leu Gln Ala Gln Ser Leu Leu Pro
 5 10 15

10004360-120701

Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro Gly Glu Glu Asp
20 25 30

Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met Ala Lys Gly Ala
35 40 45

Arg Pro Gly Ala Xaa Arg Gly Arg Ala Arg Trp Gly Leu Ala Tyr Thr
50 55 60

Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys Thr Ala Leu Leu
65 70 75 80

Gly Ala Asn Gly Ala Gln Pro Xaa
85

<210> 275

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 275

Met Ile Gln Val Ser Val Pro Leu Leu Thr Ile Met Ile Phe Leu Leu
1 5 10 15

Tyr Leu Gln Ile Gly Pro Gly Lys Leu Xaa
20 25

<210> 276

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals stop translation

<400> 276

Met Leu Leu Asp Pro Phe Ile Leu Leu Phe Cys Leu Phe Ser Thr Ala
1 5 10 15

Ala Gln Ser Cys Leu Glu Phe Ile Tyr Ile Gln Phe Xaa
20 25

<210> 277

<211> 44

<212> PRT

<213> Homo sapiens

10004660-120701

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals stop translation

<400> 277
 Met Lys Phe Leu Ser Ile Leu Leu Asp Asp Asn Asn Phe Xaa Leu Met
 1 5 10 15
 Leu Met Leu Ala Pro Phe Gly Cys Leu Ala Phe Glu Arg Ser Met Lys
 20 25 30
 Met Arg Asn Gly Ala Leu Gly Leu Glu Glu Val Xaa
 35 40

<210> 278
 <211> 363
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (307)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (363)
 <223> Xaa equals stop translation

<400> 278
 Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
 1 5 10 15
 Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
 20 25 30
 Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
 35 40 45
 Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
 50 55 60
 Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
 65 70 75 80
 Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
 85 90 95
 Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
 100 105 110

10004860-120701

Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
 115 120 125
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu
 130 135 140
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
 145 150 155 160
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
 165 170 175
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
 180 185 190
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly
 195 200 205
 Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly
 210 215 220
 Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro
 225 230 235 240
 Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro
 245 250 255
 Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly
 260 265 270
 Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala
 275 280 285
 Arg Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp
 290 295 300
 Ser Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly
 305 310 315 320
 Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu
 325 330 335
 Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly
 340 345 350
 Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu Xaa
 355 360

<210> 279

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals stop translation

10004860.120701

<400> 279

Leu Pro Thr Lys Ile Leu Val Lys Pro Asp Arg Thr Phe Glu Ile Lys
 1 5 10 15

Ile Gly Gln Pro Thr Val Ser Tyr Phe Leu Lys Ala Ala Ala Gly Ile
 20 25 30

Glu Lys Gly Ala Arg Gln Thr Gly Lys Glu Val Ala Gly Leu Val Thr
 35 40 45

Leu Lys His Val Tyr Glu Ile Ala Arg Ile Lys Ala Gln Asp Glu Ala
 50 55 60

Phe Ala Leu Gln Asp Val Pro Leu Ser Ser Val Val Arg Ser Ile Ile
 65 70 75 80

Gly Ser Ala Arg Ser Leu Gly Ile Arg Val Val Lys Asp Leu Ser Ser
 85 90 95

Glu Glu Leu Ala Ala Phe Gln Lys Glu Arg Ala Ile Phe Leu Ala Ala
 100 105 110

Gln Lys Glu Ala Asp Leu Ala Ala Gln Glu Glu Ala Ala Lys Lys Xaa
 115 120 125

<210> 280

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals stop translation

<400> 280

Met Leu Leu Gln Ile His Pro Leu Leu Pro Ser Pro Thr Ile Pro His
 1 5 10 15

Ile Leu Leu Leu Phe Leu Tyr Pro Thr Phe Ser Ile Leu Glu His Ser
 20 25 30

Cys Ser Tyr Cys Ile Glu Tyr Leu Trp Val Cys Leu Leu Phe Cys Leu
 35 40 45

Ser Leu Trp Phe Leu Xaa
 50

<210> 281

<211> 29

<212> PRT

<213> Homo sapiens

10004860.120701

<400> 281

Met Cys Leu Trp Cys Cys Gly Asp Val Cys Ser Gly Leu Ser Ser Leu
 1 5 10 15

Leu Ser Leu Cys Val Cys Cys Val Val Leu Ala Val Cys
 20 25

<210> 282

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 282

Glu Gly Leu Arg Leu Leu Leu Ser Leu Pro Ala Ala Leu Pro Arg Ser
 1 5 10 15

Cys Cys His Pro Arg Trp Leu Pro Val Xaa
 20 25

<210> 283

<211> 221

<212> PRT

<213> Homo sapiens

<400> 283

Met Phe His Gly Ile Pro Ala Thr Pro Gly Ile Gly Ala Pro Gly Asn
 1 5 10 15

Lys Pro Glu Leu Tyr Glu Glu Val Lys Leu Tyr Lys Asn Ala Arg Glu
 20 25 30

Arg Glu Lys Tyr Asp Asn Met Ala Glu Leu Phe Ala Val Val Lys Thr
 35 40 45

Met Gln Ala Leu Glu Lys Ala Tyr Ile Lys Asp Cys Val Ser Pro Ser
 50 55 60

Glu Tyr Thr Ala Ala Cys Ser Arg Leu Leu Val Gln Tyr Lys Ala Ala
 65 70 75 80

Phe Arg Gln Val Gln Gly Ser Glu Ile Ser Ser Ile Asp Glu Phe Cys
 85 90 95

Arg Lys Phe Arg Leu Asp Cys Pro Leu Ala Met Glu Arg Ile Lys Glu
 100 105 110

Asp Arg Pro Ile Thr Ile Lys Asp Asp Lys Gly Asn Leu Asn Arg Cys
 115 120 125

Ile Ala Asp Val Val Ser Leu Phe Ile Thr Val Met Asp Lys Leu Arg

10004850 120701

130 135 140
 Leu Glu Ile Arg Ala Met Asp Glu Ile Gln Pro Asp Leu Arg Glu Leu
 145 150 155 160
 Met Glu Thr Met His Arg Met Ser His Leu Pro Pro Asp Phe Glu Gly
 165 170 175
 Arg Gln Thr Val Ser Gln Trp Leu Gln Thr Leu Ser Gly Met Ser Ala
 180 185 190
 Ser Asp Glu Leu Asp Asp Ser Gln Val Arg Gln Met Leu Phe Asp Leu
 195 200 205
 Glu Ser Ala Tyr Asn Ala Phe Asn Arg Phe Leu His Ala
 210 215 220

<210> 284
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 284
 Met Gly Asn Ser Gln Val Pro Gln Ser Ser Asp Phe Ser Ser Ile Leu
 1 5 10 15
 Leu Thr Thr Ser Leu Gly Thr Tyr Ser Leu Leu Leu Gly Thr Ala Gly
 20 25 30
 Ala Arg Thr Gly Ser Pro Met Ser
 35 40

<210> 285
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals stop translation

<400> 285
 Met Gln Ala Pro Phe Xaa His Phe Ser Phe Arg Met Phe Ser Asn Leu
 1 5 10 15

10004360-100701

Tyr Cys Phe Ser Asp Phe Gln Pro Asn Ile Ser Pro Cys Pro Leu Cys
 20 25 30

His Cys Ile Leu Pro Xaa His His His Val Phe Leu Leu Leu Ala Val
 35 40 45

Xaa

<210> 286
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals stop translation

<400> 286
 Met Lys Leu Val Thr Met Phe Asp Lys Leu Ser Arg Asn Arg Val Ile
 1 5 10 15

Gln Pro Met Gly Met Ser Pro Arg Gly His Leu Thr Ser Leu Gln Asp
 20 25 30

Ala Met Cys Glu Thr Met Glu Gln Gln Leu Ser Ser Asp Pro Asp Ser
 35 40 45

Asp Pro Asp Xaa
 50

<210> 287
 <211> 32
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals stop translation

<400> 287
 Met Ala Val Gly Glu Ala Val Phe Val Pro Leu Gln His Pro Pro Leu
 1 5 10 15

Leu His Gly Ser Pro Ile Pro Lys Leu Leu Pro Gly Pro Leu Leu Xaa
 20 25 30

<210> 288
 <211> 57
 <212> PRT

10004860 "100701

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals stop translation

<400> 288

Met Asn Gly Cys His Arg Arg Lys Arg Leu His Leu Cys Lys Thr Ile
1 5 10 15

Tyr Leu Leu Trp Phe Val Phe Ser Phe Leu Leu Ser Asn Glu Val Val
20 25 30

Ser Ser His Trp His Ile Leu Arg Ala Val Gln Ile Ile Cys Thr Leu
35 40 45

Phe His Arg Xaa Ile Ser Ala Phe Xaa
50 55

<210> 289

<211> 22

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals stop translation

<400> 289

Met Gly Trp Val Ser Ser Pro His Val Lys Arg Arg Glu Cys Val Leu
1 5 10 15

Lys Lys Pro Phe Phe Xaa
20

<210> 290.

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals stop translation

<400> 290

Met Phe Asn Phe Phe Lys Asn Pro Leu Leu Thr Cys Leu Phe Ile Ser
1 5 10 15

10004366-120701

Cys Tyr Leu Tyr Leu Ser Leu Leu Val Asn Lys Val Leu Phe Ala Glu
20 25 30

Glu Gly Leu Cys Cys Thr Tyr Cys Thr Thr Ser Asn Thr Gly Glu Gly
35 40 45

Gly Val Xaa
50

<210> 291

<211> 98

<212> PRT

<213> Homo sapiens

<400> 291

Met Val Tyr Ile Tyr His Ile Phe Phe Ile His Ser Leu Leu Asp Gly
1 5 10 15

Gln Leu Gly Trp Phe His Ile Phe Ala Ile Val Ser Cys Ala Ala Pro
20 25 30

Asp Ile Ile Phe Asn Ser Phe Ala Phe Ser Thr Tyr Ile Ser Lys Ser
35 40 45

Cys Ser Phe Tyr Leu Gln Asn Val Ser Cys Ile His Ser Ser Leu Ser
50 55 60

Ile Phe Asn Leu Phe Gln Cys Pro Ile Ile Ser Cys Met Glu Glu Cys
65 70 75 80

Asn Asn Trp Leu Thr Gly Leu Phe Leu His Phe Lys Ile Lys Arg Cys
85 90 95

Asp Arg

<210> 292

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals stop translation

<400> 292

Met Leu Cys Thr Ile Leu Thr Val Val Ile Ile Ile Ala Ala Gln Thr
1 5 10 15

Thr Arg Thr Thr Gly Ile Pro Lys Asn Ala Pro Gly Pro Ala Pro Leu

10004360-12001

20

25

30

Cys Ala Pro Arg Ser Pro Arg Leu Phe Leu Gln Xaa Tyr Arg Gly Pro
 35 40 45

Asn Gly Arg Pro Ala His Pro Phe Leu Gly Pro Ser Asp Leu Asp Thr
 50 55 60

Ser Xaa
 65

<210> 293
 <211> 257
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (187)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (229)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (232)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (235)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (237)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (257)
 <223> Xaa equals stop translation

<400> 293

10004860-120701

Met Leu Gly Ala Lys Pro His Trp Leu Pro Gly Pro Leu His Ser Pro
 1 5 10 15

Gly Leu Pro Leu Val Leu Val Leu Leu Ala Leu Gly Ala Gly Trp Ala
 20 25 30

Gln Glu Gly Ser Glu Pro Val Leu Leu Glu Gly Glu Cys Leu Val Val
 35 40 45

Cys Glu Pro Gly Arg Ala Ala Ala Gly Gly Pro Gly Gly Ala Ala Leu
 50 55 60

Gly Glu Ala Pro Pro Gly Arg Val Ala Phe Xaa Ala Val Arg Ser His
 65 70 75 80

His His Glu Pro Ala Gly Glu Thr Gly Asn Gly Thr Ser Gly Ala Ile
 85 90 95

Tyr Phe Asp Gln Val Leu Val Asn Glu Gly Gly Gly Phe Asp Arg Ala
 100 105 110

Ser Gly Ser Phe Val Ala Pro Val Arg Gly Val Tyr Ser Phe Arg Phe
 115 120 125

His Val Val Lys Val Tyr Asn Arg Gln Thr Val Gln Val Ser Leu Met
 130 135 140

Leu Asn Thr Trp Pro Val Ile Ser Ala Phe Ala Asn Asp Pro Asp Val
 145 150 155 160

Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu Pro Leu Asp Pro Gly
 165 170 175

Asp Arg Val Ser Leu Arg Leu Arg Arg Gly Xaa Ser Thr Gly Trp Leu
 180 185 190

Glu Ile Leu Lys Phe Leu Trp Leu Pro His Leu Pro Ser Leu Lys Asp
 195 200 205

Pro Ser Leu Ser Ser Thr Arg Ile Gln Pro Leu Thr Thr Phe Phe Cys
 210 215 220

Pro Leu Leu Pro Xaa Lys Gln Xaa Lys Gln Xaa Xaa Xaa Ser Leu Trp
 225 230 235 240

Leu Leu Ser His Leu Phe Ala Trp Glu Pro Val Pro Asn Thr Gln Val
 245 250 255

Xaa

<210> 294

<211> 103

<212> PRT

<213> Homo sapiens

<220>

10004650.120701

<221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (82)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals stop translation

<400> 294
 Met Ala Pro Arg Ala Leu Pro Gly Ser Ala Val Leu Ala Ala Val
 1 5 10 15
 Phe Val Gly Gly Ala Val Ser Ser Pro Leu Val Ala Pro Asp Asn Gly
 20 25 30
 Ser Ser Arg Thr Leu His Ser Arg Thr Glu Thr Thr Pro Ser Pro Ser
 35 40 45
 Asn Asp Thr Gly Asn Gly His Pro Glu Tyr Ile Ala Tyr Ala Leu Val
 50 55 60
 Pro Val Phe Phe Ile Met Gly Leu Phe Gly Val Leu Ile Xaa Pro Xaa
 65 70 75 80
 Xaa Xaa Lys Lys Lys Gly Tyr Arg Cys Thr Thr Glu Ala Glu Gln Asp
 85 90 95
 Ile Glu Glu Glu Lys Gly Xaa
 100

<210> 295
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals stop translation

<400> 295

10004360-120701

Met Pro Val Thr Leu Ser Ser Leu Gly Phe Trp Val Leu Leu Ser Leu
 1 5 10 15

Leu Phe Pro Trp Arg Thr Asp Gln Gly Cys Gly Pro Ala Thr Cys Tyr
 20 25 30

Xaa

<210> 296

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals stop translation

<400> 296

Met Val Leu Gly Leu Leu Leu Leu Xaa Phe Phe Ser Phe Ser Ser
 1 5 10 15

Ser Pro Ser Pro Ser Ser Ser Leu Leu Leu Leu Ser Ser Phe Phe Phe
 20 25 30

Gln Ser Leu Ala Leu Ser Pro Arg Leu Glu Xaa
 35 40

<210> 297

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals stop translation

<400> 297

Glu Trp Leu Val Phe Thr Phe Leu Leu Val Phe Gly Ser Pro Leu Gly
 1 5 10 15

Lys Gly Pro Leu Xaa
 20

<210> 298

<211> 70

<212> PRT

<213> Homo sapiens

10004350.120701

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals stop translation

<400> 298
 Met Ile Arg Ala Leu Ser Leu Phe Leu Leu Ile Phe Asp Ala Ala Leu
 1 5 10 15
 Phe Ser Leu Ser Val Phe Val Phe Ile Gly His Leu Leu Pro Met Pro
 20 25 30
 Lys Gly Thr Gly Leu His Ser Cys Ala Lys His Leu Ile Lys Ser Leu
 35 40 45
 Lys Glu Asn Val Leu Pro Leu Met Asn Tyr Pro Asp Cys Lys Leu Lys
 50 55 60
 Ile Asn Ile Ser Pro Xaa
 65 70

<210> 299
 <211> 75
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals stop translation

<400> 299
 Met Gly Lys Leu Ile Arg Leu Ser Val Met Val Met Ser Val Arg Arg
 1 5 10 15
 Leu Phe Ser Ile Tyr Trp Val Leu Ser Thr Val Pro Asp Ala Val Gly
 20 25 30
 Ser Arg Gly Gly Met Glu Glu Glu Cys Ser Arg Gly Leu Cys Cys Val
 35 40 45
 Ala Gly Gln His Lys Gln Ala Lys Gly Lys Arg Gln Ala Trp Asn Lys
 50 55 60
 Gly Gly Glu Tyr Gln Cys Val Thr Tyr Cys Xaa
 65 70 75

<210> 300
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)

10004350.120701

<223> Xaa equals stop translation

<400> 300

Met Pro Ala Leu Val Thr Leu Leu Leu Leu Phe Pro Leu Leu Pro Leu
1 5 10 15

Met Glu Ala Ser Cys His Val Met Arg Cys Pro Met Glu Arg Pro Thr
20 25 30

Xaa

<210> 301

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals stop translation

<400> 301

Glu Ala Pro Trp Gly Leu Leu Lys Leu Leu Leu Leu Ala Val Phe
1 5 10 15

Xaa

<210> 302

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals stop translation

<400> 302

Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys Lys Glu Glu Pro Lys
1 5 10 15

Xaa

<210> 303

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

10044560 120701

<400> 303

Met Gln Ser Pro Lys Phe Leu Ser Xaa Thr Pro Tyr Leu Phe Gln Thr
 1 5 10 15

Pro Phe His Leu Ile Ser Leu Pro Cys His Phe Phe Ile Phe Lys Met
 20 25 30

Pro Ile Val Tyr Val Leu Phe Lys Phe Phe Glu Arg Leu Lys Gln Pro
 35 40 45

Leu Ser Lys Ile Pro Phe Cys Leu Leu Ala Phe Lys Phe Ser Ile Arg
 50 55 60

Ala Phe Phe Leu Pro Leu Trp His Ala Ala Leu Trp Leu Ser Phe Val
 65 70 75 80

Phe Phe Ala Gly Phe Leu His Asp Val Val Val Val Ser Cys Leu Thr
 85 90 95

Leu Cys Gly Val Val Ser Cys Ser Phe Ser Ser Pro Arg Cys Leu
 100 105 110

<210> 304

<211> 12

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals stop translation

<400> 304

Met Ala Leu Leu Ile Ser Ser Leu Ile Trp Ser Xaa
 1 5 10

<210> 305

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals stop translation

<400> 305

Met Gln Met Phe Thr Val Ser Leu Leu Leu Ser Leu Leu Leu Arg Ser
 1 5 10 15

Thr Asp Gln Asn His Leu Gln Leu Leu Val Gly Arg Glu Asp His Tyr
 20 25 30

Gly Gly Xaa
 35

1004650-120701

<210> 306
 <211> 15
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals stop translation

<400> 306
 Met Ser Glu Ser Ala Cys Ile Leu Asn Asn Gln Lys Glu Leu Xaa
 1 5 10 15

<210> 307
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals stop translation

<400> 307
 Met Asp Leu Asp Arg Val Lys Ala Glu Ala Thr Glu Asp Ile Thr Ser
 1 5 10 15

Gly Val Leu Cys Leu Leu Phe Leu Arg Leu Pro Pro Asn Ser Cys Ile
 20 25 30

Phe Pro Ser Ala Val Leu Gly Ser Thr Arg Thr Xaa
 35 40

<210> 308
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 308
 Met Met Val Val Gly Thr Gly Thr Ser Leu Ala Leu Ser Ser Leu Leu
 1 5 10 15

Ser Leu Leu Leu Phe Ala Gly Met Gln Met Tyr Ser Arg Gln Leu Ala
 20 25 30

Ser Thr Glu Trp Leu Thr Ile Gln Gly Gly Leu Leu Gly Ser Gly Leu
 35 40 45

Phe Val Phe Ser Leu Thr Ala Phe Asn Asn Leu Glu Asn Leu Val Phe
 50 55 60

Gly Lys Gly Phe Gln Ala Lys Ile Phe Pro Glu Ile Leu Leu Cys Leu
 65 70 75 80

100004860 120701

Leu Leu Ala Leu Phe Ala Ser Gly Leu Ile His Arg Val Cys Val Thr
 85 90 95

Thr Cys Phe Ile Phe Ser Met Val Gly Leu Tyr Tyr Ile Asn Lys Ile
 100 105 110

Ser Ser Thr Leu Tyr Gln Ala Ala Ala Pro Val Leu Thr Pro Ala Lys
 115 120 125

Val Thr Gly Lys Ser Lys Lys Arg Asn
 130 135

<210> 309
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals stop translation

<400> 309
 Met Phe Ile Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu
 1 5 10 15

Glu Tyr Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu
 20 25 30

Arg Xaa

<210> 310
 <211> 137
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals stop translation

<400> 310
 Met Arg Thr Pro Gly Pro Leu Pro Val Leu Leu Leu Leu Leu Ala Gly
 1 5 10 15

Ala Pro Ala Ala Arg Pro Thr Pro Pro Thr Cys Tyr Ser Arg Met Arg
 20 25 30

Ala Leu Ser Gln Glu Ile Thr Arg Asp Phe Asn Leu Leu Gln Val Ser
 35 40 45

Glu Pro Ser Glu Pro Cys Val Arg Tyr Leu Pro Arg Leu Tyr Leu Asp
 50 55 60

1004360-120701

Ile His Asn Tyr Cys Val Leu Asp Lys Leu Arg Asp Phe Val Ala Ser
65 70 75 80

Pro Pro Cys Trp Lys Val Ala Gln Val Asp Ser Leu Lys Asp Lys Ala
85 90 95

Arg Lys Leu Tyr Thr Ile Met Asn Ser Phe Cys Arg Arg Asp Leu Val
100 105 110

Phe Leu Leu Asp Asp Cys Asn Ala Leu Glu Tyr Pro Ile Pro Val Thr
115 120 125

Thr Val Leu Pro Asp Arg Gln Arg Xaa
130 135

<210> 311

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals stop translation

<400> 311

Met Trp Leu Leu Lys Pro Ser Ala His Ser Pro Val His Xaa Leu Val
1 5 10 15

Leu Leu Phe Pro Arg Gly Trp Ser Gln Pro Gly Thr His Lys Arg Gln
20 25 30

Ile Leu Val Asn Xaa Ala Ser Leu Pro Gly Gly Cys Leu Leu Pro Trp
35 40 45

Ile Trp Ser Gly Ala Ala Leu Arg Phe Xaa
50 55

<210> 312

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

10004860-12001

<223> Xaa equals stop translation

<400> 312

Met Ser Arg Arg Ala Glu Ala Ser Ile Phe Val Leu Pro Lys Thr Leu
1 5 10 15

Leu Phe Val Leu Phe Pro Ala Phe Pro Ser Pro Ala Val Gly Cys Pro
20 25 30

Val Pro Xaa
35

<210> 313

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 313

Met Ala Leu Glu Met Val Trp Gly Ser Val Tyr His Cys Ser Cys Tyr
1 5 10 15

Ile Thr Pro Trp Ser Lys Ile Gln Ser Phe Ser Leu Ser Leu Phe Gln
20 25 30

Phe Ile Leu Gln Glu Val Asn Ile Thr Leu Pro Glu Asn Ser Val Trp
35 40 45

Tyr Glu Arg Tyr Lys Phe Asp Ile Pro Val Phe His Leu Asn Gly Gln
50 55 60

Phe Leu Met Met His Arg Val Asn Thr Ser Lys Leu Glu Lys Gln Leu
65 70 75 80

Leu Lys Leu Glu Gln Ser Thr Gly Xaa
85 90

<210> 314

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals stop translation

<400> 314

Met Phe Val Leu Phe Ser Leu Pro Lys Tyr Ala Gly Leu Arg Leu Pro
1 5 10 15

Ile Pro Gly Leu Ser Ala Leu Leu Val Phe Leu Leu Ser Leu Phe Ser

10004360.120701

20

25

30

Arg Arg Ala Gln Val Glu Leu Thr Thr Gly Arg Glu Thr Leu Pro Lys
 35 40 45

Asn Leu Gln Gly Tyr Phe Pro Glu Phe Gly Phe Gln Val Gln Asn Phe
 50 55 60

Leu Ser Cys Lys Ile Tyr Ala Ala Ser Gln Lys Gln Pro Leu Pro Pro
 65 70 75 80

Leu Tyr Gln Leu Arg Phe Tyr Leu Lys His Met Gly Leu Pro Xaa
 85 90 95

<210> 315

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals stop translation

<400> 315

Met Ser Ser His Trp Thr Leu Lys Ile Leu Leu Val Pro Leu Phe Tyr
 1 5 10 15

Leu Ser Leu Glu Phe Pro Ser Gly Phe Val Leu Cys Leu Ala Asn Asp
 20 25 30

Leu Gly Tyr His Phe Ser Ser Arg Val Arg Ser Xaa
 35 40

<210> 316

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals stop translation

<400> 316

Met Leu Val Val Asn Ile Asn Leu Val Phe Leu Leu Phe Phe Ile Phe
 1 5 10 15

Leu Cys Tyr Leu Asp Ala Cys Ile Asn Val Phe Cys Phe Tyr Xaa
 20 25 30

<210> 317

<211> 113

<212> PRT

<213> Homo sapiens

10004360.120701

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (113)
 <223> Xaa equals stop translation

<400> 317

Met	Pro	Val	Leu	Pro	Gly	Arg	Thr	Thr	Ala	Leu	Leu	Ser	Leu	Thr	Leu
1				5					10					15	
Ala	Phe	Ala	Val	Pro	Cys	Ser	Gly	Val	Glu	Ala	Gly	Pro	Cys	Val	Pro
			20					25					30		
Arg	Ser	His	Gly	Cys	Ser	Ser	Trp	Glu	Ala	Ser	Val	Cys	Val	Thr	Ser
		35					40					45			
Ser	Thr	Pro	Gly	Gly	Ser	Trp	Arg	Ala	Arg	Ala	Leu	Phe	Pro	Ser	Ala
	50					55					60				
Ala	Trp	His	Arg	Xaa	Ala	Ala	Trp	Asp	Ser	Pro	Trp	Thr	Gln	Thr	Gly
65					70					75					80
Asp	Phe	Ala	Arg	Gly	Ala	Met	Gly	Gly	Ala	Gly	Ala	Leu	Pro	Gly	Gly
				85					90					95	
Cys	Val	Cys	Ile	Ser	Gly	Arg	Pro	Arg	Ala	Gln	Lys	Leu	Pro	Ala	Leu
			100					105						110	

Xaa

<210> 318
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 318

Met	Ser	Pro	Arg	Tyr	Pro	Gly	Gly	Pro	Arg	Pro	Pro	Leu	Arg	Ile	Pro
1				5					10					15	
Asn	Gln	Ala	Leu	Gly	Gly	Val	Pro	Gly	Ser	Gln	Pro	Leu	Leu	Pro	Ser
			20					25					30		
Gly	Met	Asp	Pro	Thr	Arg	Gln	Gln	Gly	His	Pro	Asn	Met	Gly	Gly	Pro
		35						40				45			
Met	Gln	Arg	Met	Thr	Pro	Pro	Arg	Gly	Met	Val	Pro	Leu	Gly	Pro	Gln
	50						55					60			
Asn	Tyr	Gly	Gly	Ala	Met	Arg	Pro	Pro	Leu	Asn	Ala	Leu	Gly	Gly	Pro
65					70					75					80

Gly Met Pro Gly Met Asn Met Gly Pro Gly Gly Gly Arg Pro Trp Pro
 85 90 95
 Asn Pro Thr Asn Ala Asn Ser Ile Pro Tyr Ser Ser Ala Ser Pro Gly
 100 105 110
 Asn Tyr Val Gly Pro Pro Gly Gly Gly Gly Pro Pro Gly Thr Pro Ile
 115 120 125
 Met Pro Ser Pro Ala Asp Ser Thr Asn Ser Gly Asp Asn Met Tyr Thr
 130 135 140
 Leu Met Asn Ala Val Pro Pro Gly Pro Asn Arg Pro Asn Phe Pro Met
 145 150 155 160
 Gly Pro Gly Ser Asp Gly Pro Met Gly Gly Leu Gly Gly Met Glu Ser
 165 170 175
 His His Met Asn Gly Ser Leu Gly Ser Gly Asp Met Asp Ser Ile Ser
 180 185 190
 Lys Asn Ser Pro Asn Asn Met Ser Leu Ser Asn Gln Pro Gly Thr Pro
 195 200 205
 Arg Asp Asp Gly Glu Met Gly Gly Asn Phe Leu Asn Pro Phe Gln Ser
 210 215 220
 Glu Ser Tyr Ser Pro Ser Met Thr Met Ser Val
 225 230 235

<210> 319

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals stop translation

<400> 319

Met Glu Asn Phe Phe Phe Ser Phe Tyr Leu Phe Leu Ile Thr Leu Ile
 1 5 10 15

Pro Asn Gly Arg Thr Leu Ser Thr Thr Ala Asp His Cys Lys Ile Pro
 20 25 30

Cys Ile Xaa
 35

<210> 320

<211> 35

<212> PRT

<213> Homo sapiens

<220>

10004860-120701

<221> SITE
 <222> (35)
 <223> Xaa equals stop translation

<400> 320

Met Glu Leu Trp Glu Leu Ala Leu Cys Leu Leu Val Ala Leu Ser Ala
 1 5 10 15

His Met Phe Thr Val Gln Leu Leu Ala Asp Leu Gly Phe Leu Phe Gly
 20 25 30

Gly Phe Xaa
 35

<210> 321

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals stop translation

<400> 321

Met Gly Ala Gly Ile Leu Ala Leu Leu Leu Pro Leu Glu Ser Val Leu
 1 5 10 15

Thr Cys Ser Trp Ile Ser Val Ser Thr Ser Glu Arg Gln Leu Trp Gln
 20 25 30

Ser Ser Gln Lys Ala Thr Ile Leu Ser Leu Lys Leu Asp Ser Cys Phe
 35 40 45

Cys Gly His Ser Gly Leu Lys Gly Lys Asn Glu Asp Thr Asp Ser Ser
 50 55 60

Val Pro Ile Ile Pro Ser Lys Thr His Thr His Leu Gly Lys His Leu
 65 70 75 80

Ile Xaa

<210> 322

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

10004560.120701

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals stop translation

<400> 322

Met Phe Tyr Phe Val Leu Phe Ile Tyr Ser Ser Ser Glu Thr Trp Ser
1 5 10 15

Gly Ser Val Ala Gln Asp Gly Val His Gly Val Ile Ile Gly His Cys
20 25 30

Ser Val Glu Leu Pro Gly Ser Gly Asp Pro Pro Ala Ser Ala Xaa Leu
35 40 45

Val Ala Gly Thr Ile Gly Thr Cys Pro Thr Met Pro Gly Phe Val Tyr
50 55 60

Phe Leu Asn Asp Val Xaa Asn Xaa
65 70

<210> 323

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals stop translation

<400> 323

Met Asp Ser Thr Leu Arg Gln Gly Arg Xaa Leu Leu Thr Leu Val Pro
1 5 10 15

Ala Ser Leu Phe Ser Leu Thr Leu Gly Gly Pro Gly Pro Trp Lys Asp
20 25 30

Pro Xaa

<210> 324

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

10004360 120701

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 324

Met Gln Val Val Gly Ser Trp Pro Gly Arg Val Gly Val Val Gly Leu
1 5 10 15

Ala Phe Ser Leu Val Ile Pro Pro Pro Ala Ile Cys Ile Ala Gly Pro
20 25 30

Ala Pro Gly Leu Gly Gly Gly Glu Arg Gln Gln Lys Gly Leu Gly Arg
35 40 45

Gly Gly Gly Gly Leu Arg Asn Cys Pro Gly Arg Val Gly Met Ala Ala
50 55 60

Glu Pro Gly Ala Leu Leu Cys Leu Thr Ser Arg Asp Gly Ser Leu Leu
65 70 75 80

Leu Ser Cys Val Arg Pro His His Val Ile Lys Pro Lys Gly Thr Ala
85 90 95

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Xaa
100 105 110

Gly Gly Xaa
115

<210> 325

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

10004860-120701

<400> 325

Met Asp Leu Pro Gln Phe Ile Tyr Leu Phe Ile Phe Cys Phe Cys Cys
 1 5 10 15

Leu Ala Ile Val Asn Asn Ala Ser Ile Asn Ile His Ile Gln Val Ser
 20 25 30

Met Trp Leu Tyr Val Phe Ile Ser Leu Gly Tyr Leu His Gly Ser Arg
 35 40 45

Ile Leu Gly His Asn Ile Ile Leu Cys Leu Thr Ser Gln Arg Ile Ala
 50 55 60

Lys Arg Phe Phe Ile Val Ala Ala Ser Phe Thr Phe Pro Pro Ala Met
 65 70 75 80

Tyr Lys Asp Phe Tyr Phe Ser Ile Ser Leu His Leu Pro Thr Leu Leu
 85 90 95

Phe Xaa Xaa Xaa Phe Val Phe Ser Leu Leu Pro Pro
 100 105

<210> 326

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals stop translation

<400> 326

Met Cys Ser Pro Ser Leu Ser Ser Ser Pro Pro Pro Leu Leu Gln Val
 1 5 10 15

Phe Phe Phe Phe Phe Ser Pro His Trp Ala Ala Lys Val Val Pro
 20 25 30

Gln Trp Lys Xaa Arg His Pro Gln Val Ser Ser Gln Leu Leu Leu Cys
 35 40 45

Phe Leu Arg Val Asn Cys Gln Phe Leu Phe Leu Gln Glu Ile Leu Phe
 50 55 60

Xaa

65

<210> 327

<211> 49

<212> PRT

10004360.120701

<213> Homo sapiens

<400> 327

Met Cys Leu Ser Arg Trp Lys Ile Phe Tyr Thr Leu Leu Ile Leu Phe
1 5 10 15

Ala Phe Phe Ser Ile Thr Ser Glu Asn Glu Thr Phe Tyr Met Ile Ile
20 25 30

Ile His His Asn Pro Thr Gln Ile Thr Ala Ser Cys Ser Phe Thr Phe
35 40 45

Leu

<210> 328

<211> 293

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 328

Met Glu Arg Pro Asp Trp Glu Thr Ala Ile Gln Lys Pro Leu Cys Ser
1 5 10 15

Leu Pro Ala Gly Ser Gly Asn Ala Leu Ala Ala Ser Leu Asn His Tyr
20 25 30

Ala Gly Tyr Xaa Gln Val Thr Asn Glu Asp Leu Leu Thr Asn Cys Thr
35 40 45

Leu Leu Leu Cys Arg Arg Leu Leu Ser Pro Met Asn Leu Leu Ser Leu
50 55 60

His Thr Ala Ser Gly Leu Arg Leu Phe Ser Val Leu Ser Leu Ala Trp
65 70 75 80

Gly Phe Ile Ala Asp Val Asp Leu Glu Ser Glu Lys Tyr Arg Arg Leu
85 90 95

Gly Glu Met Arg Phe Thr Leu Gly Thr Phe Leu Arg Leu Ala Ala Leu
100 105 110

Arg Thr Tyr Arg Gly Arg Leu Ala Tyr Leu Pro Val Gly Arg Val Gly
115 120 125

Ser Lys Thr Pro Ala Ser Pro Val Val Val Gln Gln Gly Pro Val Asp
130 135 140

Ala His Leu Val Pro Leu Glu Glu Pro Val Pro Ser His Trp Thr Val
145 150 155 160

Val Pro Asp Glu Asp Phe Val Leu Val Leu Ala Leu Leu His Ser His

10004360-120701

165

170

175

Leu Gly Ser Glu Met Phe Ala Ala Pro Met Gly Arg Cys Ala Ala Gly
 180 185 190

Val Met His Leu Phe Tyr Val Arg Ala Gly Val Ser Arg Ala Met Leu
 195 200 205

Leu Arg Leu Phe Leu Ala Met Glu Lys Gly Arg His Met Glu Tyr Glu
 210 215 220

Cys Pro Tyr Leu Val Tyr Val Pro Val Val Ala Phe Arg Leu Glu Pro
 225 230 235 240

Lys Asp Gly Lys Gly Val Phe Ala Val Asp Gly Glu Leu Met Val Ser
 245 250 255

Glu Ala Val Gln Gly Gln Val His Pro Asn Tyr Phe Trp Met Val Ser
 260 265 270

Gly Cys Val Glu Pro Pro Pro Ser Trp Lys Pro Gln Gln Met Pro Pro
 275 280 285

Pro Glu Glu Pro Leu
 290

<210> 329

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals stop translation

<400> 329

Met Pro Leu Glu Gly Phe Cys Leu Val Leu Asp Ile Gly Phe Leu Leu
 1 5 10 15

Val Met Leu Ile Ser Leu Ala Ser Glu Cys Phe Thr Thr Cys Leu Asp
 20 25 30

Ser Phe Ser Thr Thr Glu Pro Gly Cys Lys Phe Tyr Lys Leu Leu His
 35 40 45

Ser Val Ser Leu Leu Asn Ile Asn Phe Asn Val Lys Ser Leu Leu Cys
 50 55 60

Ser His Ile Xaa
 65

<210> 330

<211> 105

<212> PRT

<213> Homo sapiens

10004960-120701

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals stop translation

<400> 330

Met Pro Leu Gln Leu Ser Gly Gln Tyr Trp Ile Ser Leu Leu Val Phe
 1 5 10 15

Leu Ser Leu Gln Pro Phe Pro Gln Ala Ala Ile Pro Cys Ala Leu Thr
 20 25 30

Asp Val Gly Gly Ser Cys Val Ile Cys His Ile Leu Leu Asn Cys Leu
 35 40 45

Cys Ile Leu Phe Thr Leu Thr Ala Pro Ser Leu Ser His Val Leu Leu
 50 55 60

Ile Lys Met Ser Leu Ser Val Cys Tyr Glu Pro Gly Ala Asp Leu Ser
 65 70 75 80

Asp Arg Ala Ala Thr Gly Asn Lys Lys Leu Thr Arg Ser Thr Cys Leu
 85 90 95

Leu Met His Ser Asn Lys Leu Cys Xaa
 100 105

<210> 331

<211> 58

<212> PRT

<213> Homo sapiens

<400> 331

Met Trp Gly Cys Ser Gly Leu Gly His Arg Thr Val Ser Phe Leu Leu
 1 5 10 15

Leu Leu Pro Cys Ser Phe Pro Arg Pro Cys Gly Leu Phe Gly Leu Ile
 20 25 30

Pro Ile Ser Arg Pro Cys Lys Val Glu Ala Pro Arg Pro Leu Ser Pro
 35 40 45

Thr Thr Leu Met Cys Gln Ser Pro Leu Leu
 50 55

<210> 332

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

10004350-120701

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals stop translation

<400> 332
 Met Leu Asn Val Leu Ser Lys Val Gln Gln Leu Val Ser Xaa Leu Gly
 1 5 10 15
 Leu Val Thr Phe Leu Leu Asn His Ser Ala Ala Gly Gly Ser Pro Gln
 20 25 30
 His Arg Trp Leu Leu Leu Xaa
 35

<210> 333
 <211> 72
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals stop translation

<400> 333
 Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu
 1 5 10 15
 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His
 20 25 30
 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val
 35 40 45
 Ser Ala Ser Thr Trp His Leu Gly Glu Xaa Leu Leu Leu Leu Val Pro
 50 55 60
 Ile Ala Pro Ser Val Trp Ser Xaa
 65 70

<210> 334
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals stop translation

10004860-120701

<400> 334

Met Glu Gln Gly Gly Gly Pro Arg Leu Leu Leu Ile Pro Gly Leu
 1 5 10 15

Leu His Asn Thr Tyr Leu Ala Arg Pro Gly Asp Phe Pro Ala Gln Gly
 20 25 30

Thr Thr Glu Asn Thr Glu Cys Gln Gly Ser Pro Ser Pro Ile Ser His
 35 40 45

Leu Gly Lys Val Arg Ser Leu Asp Ser Asn Thr Gln Ile Xaa
 50 55 60

<210> 335

<211> 286

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (286)

<223> Xaa equals stop translation

<400> 335

Met Pro Leu Leu Phe Phe Ser Val Ser Thr Leu Phe Ser Gly Ser Val
 1 5 10 15

Thr Leu Gln Gln Arg Gly Met Phe Leu Pro Trp Thr Gly Thr Gly Glu
 20 25 30

Gln Val Leu Ala Leu Leu Trp Pro Arg Phe Glu Leu Ile Leu Glu Met
 35 40 45

Asn Val Gln Ser Val Arg Ser Thr Asp Pro Gln Arg Leu Gly Gly Leu
 50 55 60

Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu Phe Ser Ser
 65 70 75 80

Ala Leu Val Ser Ile Asn Gln Thr Ile Pro Asn Glu Arg Thr Met Gln
 85 90 95

Leu Leu Gly Gln Leu Gln Val Glu Val Glu Asn Phe Val Leu Arg Val
 100 105 110

Ala Ala Glu Phe Ser Ser Arg Lys Glu Gln Leu Val Phe Leu Ile Asn
 115 120 125

Asn Tyr Asp Met Met Leu Gly Val Leu Met Glu Arg Ala Ala Asp Asp
 130 135 140

Ser Lys Glu Val Glu Ser Phe Gln Gln Leu Leu Asn Ala Arg Thr Gln
 145 150 155 160

Glu Phe Ile Glu Glu Leu Leu Ser Pro Pro Phe Gly Gly Leu Val Ala
 165 170 175

10004560-120701

Phe Val Lys Glu Ala Glu Ala Leu Ile Glu Arg Gly Gln Ala Glu Arg
 180 185 190

Leu Arg Gly Glu Glu Ala Arg Val Thr Gln Leu Ile Arg Gly Phe Gly
 195 200 205

Ser Ser Trp Lys Ser Ser Val Glu Ser Leu Ser Gln Asp Val Met Arg
 210 215 220

Ser Phe Thr Asn Phe Arg Asn Gly Thr Ser Ile Ile Gln Gly Ala Leu
 225 230 235 240

Thr Gln Leu Ile Gln Leu Tyr His Arg Phe His Arg Val Leu Ser Gln
 245 250 255

Pro Gln Leu Arg Ala Leu Pro Ala Arg Ala Glu Leu Ile Asn Ile His
 260 265 270

His Leu Met Val Glu Leu Lys Lys His Lys Pro Asn Phe Xaa
 275 280 285

<210> 336

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals stop translation

<400> 336

Met Phe Arg Ala Leu Arg Asp Leu Leu Thr His Tyr Pro Gln Gln Ile
 1 5 10 15

Leu Leu Gln Val Leu Val Val Met Tyr Gln Val Leu Gln Val Trp Glu
 20 25 30

Leu Pro Trp Pro Glu Leu Ile His Leu Gln Gly Ile Val Pro Thr Asp
 35 40 45

Gln Leu His Leu Lys Gln Xaa
 50 55

<210> 337

<211> 59

<212> PRT

<213> Homo sapiens

<400> 337

Met Ser Tyr Pro Leu Phe Leu Phe Met Ser Cys Met Val Ile Ser Leu
 1 5 10 15

Ser Pro Asn Ala Gly Ser Gln Thr Ser Thr Val Arg Cys Leu Ser Asp
 20 25 30

10004860-120701

Leu Val Thr Phe Thr Leu Ile Lys Gly Ser Pro Val His Gln Thr Pro
 35 40 45

Tyr Leu Glu Ser Ser Ile Asn Cys Ile Thr Phe
 50 55

<210> 338

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals stop translation

<400> 338

Met His Pro Ala Arg Lys Leu Leu Ser Leu Leu Phe Leu Ile Leu Met
 1 5 10 15

Gly Thr Glu Leu Thr Gln Asp Ser Ala Ala Pro Asp Ser Leu Leu Arg
 20 25 30

Ser Ser Lys Gly Ser Thr Arg Gly Ser Leu Ala Ala Ile Val Ile Trp
 35 40 45

Arg Gly Lys Ser Glu Ser Arg Ile Ala Lys Thr Pro Gly Ile Phe Arg
 50 55 60

Gly Gly Gly Thr Leu Val Leu Pro Pro Thr His Thr Pro Glu Trp Leu
 65 70 75 80

Ile Leu Pro Leu Gly Ile Thr Leu Pro Leu Gly Ala Pro Glu Thr Gly
 85 90 95

Gly Gly Asp Cys Ala Ala Glu Thr Trp Lys Gly Ser Gln Arg Ala Gly
 100 105 110

Gln Leu Cys Ala Leu Leu Ala Xaa
 115 120

<210> 339

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids.

<400> 339

Met Pro Ser Phe Phe Leu Ser Leu Ile Gln Thr Asn Thr Leu Gly Ser
 1 5 10 15

Ala Ser Phe Leu Leu Phe Leu Thr Leu His Ile His Leu Ser Pro Asn

10004860-120701

20

25

30

Xaa Val His Ser Ala Ser

35

<210> 340

<211> 46

<212> PRT

<213> Homo sapiens

<400> 340

Met	Phe	Ser	Arg	Thr	Ser	Asn	Phe	Trp	Thr	Phe	Phe	Phe	Gln	Phe	Leu
1					5				10					15	

Ile	Phe	Lys	Val	Phe	Leu	Val	Leu	Lys	Asn	Leu	Phe	Thr	Ser	Gln	Lys
			20					25					30		

Ile	Tyr	Lys	Ile	Tyr	Ser	Glu	Lys	Pro	Lys	Lys	Lys	Lys	Lys		
		35					40						45		

<210> 341

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals stop translation

<400> 341

Met	Gly	Leu	Leu	Ile	Phe	Met	Leu	Leu	Ile	Gly	Ile	His	Ser	Gln	Cys
1				5					10					15	

Ser Xaa

<210> 342

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals stop translation

<400> 342

Met	Val	Leu	Phe	Cys	Phe	Val	Leu	Phe	Cys	Phe	Val	Phe	Glu	Met	Asp
1				5				10						15	

Ser	Ser	Ser	Val	Thr	Gln	Ala	Gly	Val	Gln	Trp	Cys	Asp	Leu	Gly	Ser
			20				25						30		

Leu	Gln	Ala	Pro	Pro	Pro	Gly	Phe	Ser	Pro	Phe	Ser	Cys	Leu	Ser	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

10004860.120701

35

40

45

Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Pro Arg Pro Ala Asn Phe
 50 55 60

Leu Tyr Phe Leu Val Glu Thr Gly Phe His His Val Ser Gln Asp Gly
 65 70 75 80

Leu Asp Leu Leu Thr Ser Xaa
 85

<210> 343

<211> 538

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (538)

<223> Xaa equals stop translation

<400> 343

Met Ser Thr Lys Lys Leu Cys Ile Val Gly Gly Ile Leu Leu Val Phe
 1 5 10 15

Gln Ile Ile Ala Phe Leu Val Gly Gly Leu Ile Ala Pro Gly Pro Thr
 20 25 30

Thr Ala Val Ser Tyr Met Ser Val Lys Cys Val Asp Ala Arg Lys Asn
 35 40 45

His His Lys Thr Lys Trp Phe Val Pro Trp Gly Pro Asn His Cys Asp
 50 55 60

Lys Ile Arg Asp Ile Glu Glu Ala Ile Pro Arg Glu Ile Glu Ala Asn
 65 70 75 80

Asp Ile Val Phe Ser Val His Ile Pro Leu Pro His Met Glu Met Ser
 85 90 95

Pro Trp Phe Gln Phe Met Leu Phe Ile Leu Gln Leu Asp Ile Ala Phe
 100 105 110

Lys Leu Asn Asn Gln Ile Arg Glu Asn Ala Glu Val Ser Met Asp Val
 115 120 125

Ser Leu Ala Tyr Arg Asp Asp Ala Phe Ala Glu Trp Thr Glu Met Ala
 130 135 140

His Glu Arg Val Pro Arg Lys Leu Lys Cys Thr Phe Thr Ser Pro Lys
 145 150 155 160

Thr Pro Glu His Glu Gly Arg Tyr Tyr Glu Cys Asp Val Leu Pro Phe
 165 170 175

Met Glu Ile Gly Ser Val Ala His Lys Phe Tyr Leu Leu Asn Ile Arg
 180 185 190

10004860.120701

Leu Pro Val Asn Glu Lys Lys Lys Ile Asn Val Gly Ile Gly Glu Ile
 195 200 205
 Lys Asp Ile Arg Leu Val Gly Ile His Gln Asn Gly Gly Phe Thr Lys
 210 215 220
 Val Trp Phe Ala Met Lys Thr Phe Leu Thr Pro Ser Ile Phe Ile Ile
 225 230 235 240
 Met Val Trp Tyr Trp Arg Arg Ile Thr Met Met Ser Arg Pro Pro Val
 245 250 255
 Leu Leu Glu Lys Val Ile Phe Ala Leu Gly Ile Ser Met Thr Phe Ile
 260 265 270
 Asn Ile Pro Val Glu Trp Phe Ser Ile Gly Phe Asp Trp Thr Trp Met
 275 280 285
 Leu Leu Phe Gly Asp Ile Arg Gln Gly Ile Phe Tyr Ala Met Leu Leu
 290 295 300
 Ser Phe Trp Ile Ile Phe Cys Gly Glu His Met Met Asp Gln His Glu
 305 310 315 320
 Arg Asn His Ile Ala Gly Tyr Trp Lys Gln Val Gly Pro Ile Ala Val
 325 330 335
 Gly Ser Phe Cys Leu Phe Ile Phe Asp Met Cys Glu Arg Gly Val Gln
 340 345 350
 Leu Thr Asn Pro Phe Tyr Ser Ile Trp Thr Thr Asp Ile Gly Thr Glu
 355 360 365
 Leu Ala Met Ala Phe Ile Ile Val Ala Gly Ile Cys Leu Cys Leu Tyr
 370 375 380
 Phe Leu Phe Leu Cys Phe Met Val Phe Gln Val Phe Arg Asn Ile Ser
 385 390 395 400
 Gly Lys Gln Ser Ser Leu Pro Ala Met Ser Lys Val Arg Arg Leu His
 405 410 415
 Tyr Glu Gly Leu Ile Phe Arg Phe Lys Phe Leu Met Leu Ile Thr Leu
 420 425 430
 Ala Cys Ala Ala Met Thr Val Ile Phe Phe Ile Val Ser Gln Val Thr
 435 440 445
 Glu Gly His Trp Lys Trp Gly Gly Val Thr Val Gln Val Asn Ser Ala
 450 455 460
 Phe Phe Thr Gly Ile Tyr Gly Met Trp Asn Leu Tyr Val Phe Ala Leu
 465 470 475 480
 Met Phe Leu Tyr Ala Pro Ser His Lys Asn Tyr Gly Glu Asp Gln Ser
 485 490 495

10004860.120701

Asn Gly Met Gln Leu Pro Cys Lys Ser Arg Glu Asp Cys Ala Leu Phe
500 505 510

Val Ser Glu Leu Tyr Gln Glu Leu Phe Ser Ala Ser Lys Tyr Ser Phe
515 520 525

Ile Asn Asp Asn Ala Ala Ser Gly Ile Xaa
530 535

<210> 344

<211> 202

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (202)

<223> Xaa equals stop translation

<400> 344

Met Gly Ile Ala Leu Ala Val Leu Gly Trp Leu Ala Val Met Leu Cys
1 5 10 15

Cys Ala Leu Pro Met Trp Arg Val Thr Ala Phe Ile Gly Ser Asn Ile
20 25 30

Val Thr Ser Gln Thr Ile Trp Glu Gly Leu Trp Met Asn Cys Val Val
35 40 45

Gln Ser Thr Gly Gln Met Gln Cys Lys Val Tyr Asp Ser Leu Leu Ala
50 55 60

Leu Pro Gln Asp Leu Gln Ala Ala Arg Ala Leu Val Ile Ile Ser Ile
65 70 75 80

Ile Val Ala Ala Leu Gly Val Leu Leu Ser Val Val Gly Gly Lys Cys
85 90 95

Thr Asn Cys Leu Glu Asp Glu Ser Ala Lys Ala Lys Thr Met Ile Val
100 105 110

Ala Gly Val Val Phe Leu Leu Ala Gly Leu Met Val Ile Val Pro Val
115 120 125

Ser Trp Thr Ala His Asn Ile Ile Gln Asp Phe Tyr Asn Pro Leu Val
130 135 140

Ala Ser Gly Gln Lys Arg Glu Met Gly Ala Ser Leu Tyr Val Gly Trp
145 150 155 160

Ala Ala Ser Gly Leu Leu Leu Leu Gly Gly Gly Leu Leu Cys Cys Asn
165 170 175

Cys Pro Pro Arg Thr Asp Lys Pro Tyr Ser Ala Lys Tyr Ser Ala Ala
180 185 190

Arg Ser Ala Ala Ala Ser Asn Tyr Val Xaa

10004350.120701

195

200

<210> 345
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 345
 Met Val Ser Ile Ser Val Val Leu Arg Val Ser Leu Pro Thr Leu Glu
 1 5 10 15
 Pro Val Pro Val Ala Gly Arg Ser Ile Trp Ile Ser Thr Thr Ser Pro
 20 25 30
 Ser Met Ile Ser Val Ser Ser Leu Met Arg Thr Pro Met Asp Arg Arg
 35 40 45
 Lys Ala Cys Val Ser Ala Ser Val Leu Leu Ile Ser Arg Glu Lys Ile
 50 55 60
 Ser Leu Pro Ala Met Ala Val Asn Gly Val Ser Gly Pro Arg Ala Cys
 65 70 75 80
 Ala Met Pro Met Ala Met Ala Val Phe Pro Val Pro Gly Trp Pro Ala
 85 90 95
 Ile Arg Thr Ala Arg Pro Ala Ile Phe Pro Ser Arg Ile Ile Ser Ser
 100 105 110
 Thr Thr Pro Ala Ala Arg Arg Ala Ala Ser
 115 120

<210> 346
 <211> 260
 <212> PRT
 <213> Homo sapiens

<400> 346
 Met Leu Ala Leu Leu Gly Leu Ser Gln Ala Leu Asn Ile Leu Leu Gly
 1 5 10 15
 Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys Glu Lys Gly
 20 25 30
 Asn Phe Asn Val Ala His Gly Leu Ala Trp Ser Tyr Tyr Ile Gly Tyr
 35 40 45
 Leu Arg Leu Ile Leu Pro Glu Leu Gln Ala Arg Ile Arg Thr Tyr Asn
 50 55 60
 Gln His Tyr Asn Asn Leu Leu Arg Gly Ala Val Ser Gln Arg Leu Tyr
 65 70 75 80
 Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala
 85 90 95

10004660.120701

Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp
 100 105 110
 Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn Ser Ile Tyr Glu Leu
 115 120 125
 Leu Glu Asn Gly Gln Arg Ala Gly Thr Cys Val Leu Glu Tyr Ala Thr
 130 135 140
 Pro Leu Gln Thr Leu Phe Ala Met Ser Gln Tyr Ser Gln Ala Gly Phe
 145 150 155 160
 Ser Gly Glu Asp Arg Leu Glu Gln Ala Lys Leu Phe Cys Arg Thr Leu
 165 170 175
 Glu Asp Ile Leu Ala Asp Ala Pro Glu Ser Gln Asn Asn Cys Arg Leu
 180 185 190
 Ile Ala Tyr Gln Glu Pro Ala Asp Asp Ser Ser Phe Ser Leu Ser Gln
 195 200 205
 Glu Val Leu Arg His Leu Arg Gln Glu Glu Lys Glu Glu Val Thr Val
 210 215 220
 Gly Ser Leu Lys Thr Ser Ala Val Pro Ser Thr Ser Thr Met Ser Gln
 225 230 235 240
 Glu Pro Glu Leu Leu Ile Ser Gly Met Glu Lys Pro Leu Pro Leu Arg
 245 250 255
 Thr Asp Phe Ser
 260

<210> 347

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 347

Met Thr Pro Gln Lys Pro Ala Leu Ala Val Leu Leu Leu Glu Val Pro
 1 5 10 15

Leu Leu Leu Thr Leu Ser Val Leu Lys Lys Arg Cys Leu Val Thr Cys
 20 25 30

Glu Pro Thr Ser Arg Phe Val Ser Cys Asp Leu Pro Leu Ser Val Xaa
 35 40 45

10004860-120701

<210> 348
 <211> 334
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (288)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (334)
 <223> Xaa equals stop translation

<400> 348
 Met Ala Ala Ala Ala Trp Leu Gln Val Leu Pro Val Ile Leu Leu Leu
 1 5 10 15
 Leu Gly Ala His Pro Ser Pro Leu Ser Phe Phe Ser Ala Gly Pro Ala
 20 25 30
 Thr Val Ala Ala Ala Asp Arg Ser Lys Trp His Ile Pro Ile Pro Ser
 35 40 45
 Gly Lys Asn Tyr Phe Ser Phe Gly Lys Ile Leu Phe Arg Asn Thr Thr
 50 55 60
 Ile Phe Leu Lys Phe Asp Gly Glu Pro Cys Asp Leu Ser Leu Asn Ile
 65 70 75 80
 Thr Trp Tyr Leu Lys Ser Ala Asp Cys Tyr Asn Glu Ile Tyr Asn Phe
 85 90 95
 Lys Ala Glu Glu Val Glu Leu Tyr Leu Glu Lys Leu Lys Glu Lys Arg
 100 105 110
 Gly Leu Ser Gly Lys Tyr Gln Thr Ser Ser Lys Leu Phe Gln Asn Cys
 115 120 125
 Ser Glu Leu Phe Lys Thr Gln Thr Phe Ser Gly Asp Phe Met His Arg
 130 135 140
 Leu Pro Leu Leu Gly Glu Lys Gln Glu Ala Lys Glu Asn Gly Thr Asn
 145 150 155 160
 Leu Thr Phe Ile Gly Asp Lys Thr Ala Met His Glu Pro Leu Gln Thr
 165 170 175
 Trp Gln Asp Ala Pro Tyr Ile Phe Ile Val His Ile Gly Ile Ser Ser
 180 185 190
 Ser Lys Glu Ser Ser Lys Glu Asn Ser Leu Ser Asn Leu Phe Thr Met
 195 200 205
 Thr Val Glu Val Lys Gly Pro Tyr Glu Tyr Leu Thr Leu Glu Asp Tyr
 210 215 220

10004860-120701

Pro Leu Met Ile Phe Phe Met Val Met Cys Ile Val Tyr Val Leu Phe
 225 230 235 240

Gly Val Leu Trp Leu Ala Trp Ser Ala Cys Tyr Trp Arg Asp Leu Leu
 245 250 255

Arg Ile Gln Phe Trp Ile Gly Ala Val Ile Phe Leu Gly Met Leu Glu
 260 265 270

Lys Ala Val Phe Tyr Ala Glu Phe Gln Asn Ile Arg Tyr Lys Gly Xaa
 275 280 285

Ser Val Gln Gly Ala Leu Ile Leu Ala Glu Leu Leu Ser Ala Val Lys
 290 295 300

Arg Ser Leu Ala Arg Thr Leu Val Ile Ile Val Ser Leu Gly Tyr Gly
 305 310 315 320

Ile Val Lys Pro Arg Leu Glu Ser Leu Phe Ile Arg Leu Xaa
 325 330

<210> 349

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (200)

<223> Xaa equals stop translation

<400> 349

Met Val Leu Xaa Val Val Thr Leu Gly Leu Ala Leu Phe Thr Leu Cys
 1 5 10 15

Gly Lys Phe Lys Arg Trp Lys Leu Asn Gly Ala Phe Leu Leu Ile Thr
 20 25 30

Ala Phe Leu Ser Val Leu Ile Trp Val Ala Trp Met Thr Met Tyr Leu
 35 40 45

Phe Gly Asn Val Lys Leu Gln Gln Gly Asp Ala Trp Asn Asp Pro Thr
 50 55 60

Leu Ala Ile Thr Leu Ala Ala Ser Ala Gly Ser Ser Ser Ser Thr
 65 70 75 80

10004860-120701

Pro Ser Leu Arg Ser Thr Ala Pro Phe Cys Gln Pro Cys Arg Arg Thr
85 90 95

Arg Pro Thr Thr Ser Thr Arg Arg Ser Pro Gly Cys Gly Arg Arg Pro
100 105 110

Ser Arg Arg Thr Cys Ser Cys Arg Gly Pro Ile Trp Arg Thr Arg Pro
115 120 125

Ser Pro Trp Met Asn Thr Met Gln Leu Ser Glu Gln Gln Asp Phe Pro
130 135 140

Thr Ala Ala Trp Glu Lys Asp Pro Val Ala Ala Trp Gly Lys Asp Pro
145 150 155 160

Ala Leu Arg Leu Glu Ala Thr Cys Ile Ser Gln Leu Arg Trp Pro Ser
165 170 175

Cys Ser Thr Val Gly Pro Ser Gln Leu Leu Arg Gln Val Thr Gln Glu
180 185 190

Xaa Thr Phe Gly Glu Arg Leu Xaa
195 200

<210> 350

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals stop translation

<400> 350

Met Leu Leu His His Gln Leu Leu Ile Val Thr Leu His Leu Val Leu
1 5 10 15

Leu Leu Ala Thr Leu Leu Val Xaa
20

<210> 351

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

10004660-120701

<220>
 <221> SITE
 <222> (143)
 <223> Xaa equals stop translation

<400> 351

Met Thr Lys Ala Leu Leu Ile Tyr Leu Val Ser Ser Phe Leu Ala Leu
 1 5 10 15

Asn Gln Ala Ser Leu Ile Ser Arg Cys Asp Leu Ala Gln Val Leu Gln
 20 25 30

Leu Glu Asp Leu Asp Gly Phe Glu Gly Tyr Ser Leu Ser Asp Trp Leu
 35 40 45

Cys Leu Ala Phe Val Glu Ser Lys Phe Asn Ile Ser Lys Ile Asn Glu
 50 55 60

Asn Ala Asp Gly Ser Phe Asp Tyr Gly Leu Phe Gln Ile Asn Ser His
 65 70 75 80

Tyr Trp Cys Asn Xaa Tyr Lys Ser Tyr Ser Glu Asn Leu Cys His Val
 85 90 95

Asp Cys Gln Asp Leu Leu Asn Pro Asn Leu Leu Ala Gly Ile His Cys
 100 105 110

Ala Lys Arg Ile Val Ser Gly Ala Arg Gly Met Asn Asn Trp Val Arg
 115 120 125

Met Glu Xaa Cys Thr Val Gln Ala Gly His Ser Ser Thr Gly Xaa
 130 135 140

<210> 352
 <211> 95
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (95)
 <223> Xaa equals stop translation

<400> 352

Met Leu Val Ile Ala Gly Gly Ile Leu Ala Ala Leu Leu Leu Ile
 1 5 10 15

Val Val Val Leu Cys Leu Tyr Phe Lys Ile His Asn Ala Leu Lys Ala
 20 25 30

Ala Lys Glu Pro Glu Ala Val Ala Val Lys Asn His Asn Pro Asp Lys
 35 40 45

Val Trp Trp Ala Lys Asn Ser Gln Ala Lys Thr Ile Ala Thr Glu Ser
 50 55 60

Cys Pro Ala Leu Gln Cys Cys Glu Gly Tyr Arg Met Cys Ala Ser Phe

10004350 120701

65

70

75

80

Asp Ser Leu Pro Pro Cys Cys Cys Asp Ile Asn Glu Gly Leu Xaa
 85 90 95

<210> 353

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals stop translation

<400> 353

Met Leu Leu Lys Ser Asn Ile Leu Met Leu Asn Leu Phe Ala Ala Asn
 1 5 10 15

Val Gly Ala Asn Phe Ala Leu Thr Val Glu Lys Ile Gly Met Ile Leu
 20 25 30

Leu Asn Val Ser Gly Xaa
 35

<210> 354

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals stop translation

<400> 354

Met Leu Val Val Ala Phe Gly Leu Leu Val Leu Tyr Ile Leu Leu Ala
 1 5 10 15

Ser Ser Trp Lys Arg Pro Glu Pro Gly Ile Leu Thr Asp Arg Gln Pro
 20 25 30

Leu Leu His Asp Gly Glu Xaa
 35

<210> 355

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

10004360-120701

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals stop, translation

<400> 355
 Ser Asp Pro Leu Ala Ser Ala Ser Gln Asn Ala Gly Ile Val Ser Val
 1 5 10 15
 Gly Leu Cys Thr Arg Pro Gly Pro Gln Phe Lys Asn Ala Gln Pro Pro
 20 25 30
 Phe Pro Xaa Gln Lys Ala Pro Arg Cys Leu Trp Glu Asn Gln Pro Pro
 35 40 45
 Pro Trp Arg Lys Ala Trp Asp Leu Pro Ser His Leu Gly Arg Arg Gly
 50 55 60
 Ile Cys Gly Lys Ser Phe Xaa
 65 70

<210> 356
 <211> 227
 <212> PRT
 <213> Homo sapiens

<400> 356
 Met Ala Asp Leu Leu Gly Ser Ile Leu Ser Ser Met Glu Lys Pro Pro
 1 5 10 15
 Ser Leu Gly Asp Gln Glu Thr Arg Arg Lys Ala Arg Glu Gln Ala Ala
 20 25 30
 Arg Leu Lys Lys Leu Gln Glu Gln Glu Lys Gln Gln Lys Val Glu Phe
 35 40 45
 Arg Lys Arg Met Glu Lys Glu Val Ser Asp Phe Ile Gln Asp Ser Gly
 50 55 60
 Gln Ile Lys Lys Lys Phe Gln Pro Met Asn Lys Ile Glu Arg Ser Ile
 65 70 75 80
 Leu His Asp Val Val Glu Val Ala Gly Leu Thr Ser Phe Ser Phe Gly
 85 90 95
 Glu Asp Asp Asp Cys Arg Tyr Val Met Ile Phe Lys Lys Glu Phe Ala
 100 105 110
 Pro Ser Asp Glu Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu Trp Asp
 115 120 125
 Pro Gln Lys Ala Glu Glu Lys Arg Lys Leu Lys Glu Leu Ala Gln Arg
 130 135 140
 Gln Glu Glu Glu Ala Ala Gln Gln Gly Pro Val Val Val Ser Pro Ala
 145 150 155 160

10004560.120701

Ser Asp Tyr Lys Asp Lys Tyr Ser His Leu Ile Gly Lys Gly Ala Ala
 165 170 175

Lys Asp Ala Ala His Met Leu Gln Ala Asn Lys Thr Tyr Gly Cys Val
 180 185 190

Pro Val Ala Asn Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala Met Asn
 195 200 205

Glu Ile Arg Ala Lys Lys Arg Leu Arg Gln Ser Gly Glu Glu Leu Pro
 210 215 220

Pro Thr Ser
 225

<210> 357

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

10004850-120701

<222> (90)

<223> Xaa equals stop translation

<400> 357

Met Trp Asp Trp Asp Trp Ser Ala Pro Trp Ser Trp Pro Leu Trp Leu
1 5 10 15

Ser Leu Ala Leu Val Cys Leu Ser Ala Gly Ala Lys Gly His Arg Ala
20 25 30

Ser Glu Ala Gly His Ala Arg Ala Leu Thr Cys Glu Met Gly Ser Glu
35 40 45

Phe Xaa Thr Ala Xaa Gly Leu Val Leu Gly Xaa Xaa Xaa Trp Thr Xaa
50 55 60

Xaa Asn Gly Ser Ala Gly Pro Glu Arg Arg Gly Trp Arg Pro Ala Ala
65 70 75 80

Phe Leu Ala Val Phe Leu Leu Gly Asp Xaa
85 90

<210> 358

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 358

Met Phe Gly Pro Thr Phe His Ser Leu Val Leu Val Pro Pro Trp Pro
1 5 10 15

Asn Leu Ser Leu Leu His Phe Thr Ser Pro Val Gly Gln His Ser Ser
20 25 30

Phe Leu Pro Thr Ser Leu Arg Leu Xaa Lys Lys Lys Lys Lys Lys Lys
35 40 45

<210> 359

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals stop translation

<400> 359

10004360-120701

Met Cys Ser Lys Asn Gly Phe Leu Leu Ala Trp Ser Trp Asn Ser Pro
1 5 10 15

Trp Leu Pro Gln Ala Ser Leu Ala His Gly Cys Trp Gly Arg Trp Met
20 25 30

Ser Asp Leu Val Gly Cys Ser Arg Glu Asn Lys Cys Ala Leu Arg Asp
35 40 45

His Ser Glu Arg Val Gln Gly Xaa
50 55

<210> 360

<211> 222

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (222)

<223> Xaa equals stop translation

<400> 360

Ser Pro Leu Xaa Phe Cys Val Val Leu Leu Leu Gln Ala Ala Arg Gly
1 5 10 15

Tyr Val Val Arg Lys Pro Ala Gln Ser Arg Leu Asp Asp Asp Pro Pro
20 25 30

Pro Ser Thr Leu Leu Lys Asp Tyr Gln Asn Val Pro Gly Ile Glu Lys
35 40 45

Val Asp Asp Val Val Lys Arg Leu Leu Ser Leu Glu Met Ala Asn Lys
50 55 60

Lys Glu Met Leu Lys Ile Lys Gln Glu Gln Phe Met Lys Lys Ile Val
65 70 75 80

Ala Asn Pro Glu Asp Thr Arg Ser Leu Glu Ala Arg Ile Ile Ala Leu
85 90 95

Ser Val Lys Ile Arg Ser Tyr Glu Glu His Leu Glu Lys His Arg Lys
100 105 110

Asp Lys Ala His Lys Arg Tyr Leu Leu Met Ser Ile Asp Gln Arg Lys
115 120 125

Lys Met Leu Lys Asn Leu Arg Asn Thr Asn Tyr Asp Val Phe Glu Lys
130 135 140

Ile Cys Trp Gly Leu Gly Ile Glu Tyr Thr Phe Pro Pro Leu Tyr Tyr
145 150 155 160

10004860-120701

Arg Arg Ala His Arg Arg Phe Val Thr Lys Lys Ala Leu Cys Ile Arg
165 170 175

Val Phe Gln Glu Thr Gln Lys Leu Lys Lys Arg Arg Arg Ala Leu Lys
180 185 190

Ala Ala Ala Ala Ala Gln Lys Gln Ala Lys Arg Arg Asn Pro Asp Ser
195 200 205

Pro Ala Lys Ala Ile Pro Lys Thr Leu Lys Asp Ser Gln Xaa
210 215 220

<210> 361

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals stop translation

<400> 361

Met Gly Ala Pro Ala Ala Ser Leu Leu Leu Leu Leu Leu Phe Ala
1 5 10 15

Cys Cys Trp Ala Pro Gly Gly Ala Asn Leu Ser Gln Asp Asp Ser Gln
20 25 30

Pro Trp Thr Ser Asp Glu Thr Val Val Ala Gly Gly Thr Val Val Leu
35 40 45

Lys Cys Gln Val Lys Asp His Glu Asp Ser Ser Leu Gln Trp Ser Xaa
50 55 60

<210> 362

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

10004360-120701

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals stop translation

<400> 362

Met Val Ala Pro Val Trp Tyr Leu Val Ala Ala Ala Leu Leu Val Gly
1 5 10 15

Phe Ile Leu Phe Leu Thr Arg Ser Arg Gly Arg Ala Ala Ser Ala Gly
20 25 30

Gln Glu Pro Leu His Asn Glu Glu Leu Ala Gly Ala Gly Arg Val Ala
35 40 45

Gln Pro Gly Pro Leu Glu Pro Glu Glu Pro Arg Ala Gly Gly Arg Pro
50 55 60

Arg Arg Arg Arg Asp Leu Gly Ser Arg Leu Gln Ala Gln Arg Arg Ala
65 70 75 80

Gln Arg Val Ala Trp Ala Glu Ala Asp Glu Asn Glu Glu Glu Ala Val
85 90 95

Ile Leu Ala Gln Glu Glu Glu Gly Val Glu Lys Pro Ala Glu Xaa His
100 105 110

Leu Ser Gly Lys Ile Gly Ala Lys Lys Leu Arg Xaa Xaa Glu Glu Lys
115 120 125

Gln Ala Arg Lys Ala Gln Xaa Glu Ala Glu Glu Ala Glu Arg Glu Xaa
130 135 140

Arg Lys Arg Leu Glu Ser Gln Arg Glu Xaa
145 150

<210> 363

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

10004350-120701

<400> 363

Xaa

$\langle 211 \rangle$ 10

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (10)

<223> Xaa equals stop translation

<400> 364

<210> 365

<211> 14

<212> PRT

<213> Homo sapiens

 ≤ 220

<221> SITE

 $\langle 222 \rangle \quad (14)$

<223> Xaa equals stop translation

<400> 365

<210> 366

<211>, 18

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids.

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals stop translation

<400> 366

Met Cys Glu Phe Xaa Xaa Xaa Ile Met Xaa Leu Ala Gly Tyr Phe Ala
1 5 10 15

Cys Xaa

<210> 367

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals stop translation

<400> 367

Met Val Gly Gly Tyr Val Ser Ser Phe Ser Phe Pro Pro Val Ser Ser
1 5 10 15

Ser Leu Leu Leu Pro Ala Ser Phe Ala Phe Pro Phe Leu Pro Gly Thr
20 25 30

Pro Cys Pro Phe Leu Tyr Phe Leu Pro Ser Pro Phe Ser Pro Leu Pro
35 40 45

Leu Ser Leu Thr Arg Ser Asn Ser Phe Leu Leu Asn Gly Xaa
50 55 60

<210> 368

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals stop translation

<400> 368

Glu Lys Lys Ser Met Ser Val Ser Asp Ile Tyr Ala Leu Glu Ser Leu
1 5 10 15

10004860-12001

Gly Arg Ser Leu Phe Thr Leu Asn Ser Met Cys Leu Pro Leu Ser Phe
 20 25 30

Xaa

<210> 369

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 369

Met Gly Gly Ala Ser Arg Arg Val Glu Ser Gly Ala Trp Ala Tyr Leu
 1 5 10 15

Ser Pro Leu Val Leu Arg Lys Glu Leu Glu Ser Leu Val Glu Asn Glu
 20 25 30

Gly Ser Glu Val Leu Ala Leu Pro Glu Leu Pro Ser Ala His Pro Ile
 35 40 45

Ile Phe Trp Asn Leu Leu Trp Tyr Phe Gln Arg Leu Arg Leu Pro Ser
 50 55 60

Ile Leu Pro Gly Leu Val Leu Ala Ser Cys Asp Gly Pro Ser Xaa Ser
 65 70 75 80

Gln Ala Pro Ser Pro Trp Leu Thr Pro Asp Pro Ala Ser Val Gln Val
 85 90 95

Arg Leu Leu Trp Asp Val Leu Thr Pro Asp Pro Asn Ser Cys Pro Pro
 100 105 110

Leu Tyr Val Leu Trp Arg Val His Ser Gln Ile Pro Gln Arg Val Val
 115 120 125

Trp Pro Gly Pro Val Pro Ala Ser Leu Ser Leu Ala Leu Leu Glu Ser
 130 135 140

Val Leu Arg His Val Gly Leu Asn Glu Val His Lys Ala Val Gly Leu
 145 150 155 160

Leu Leu Glu Thr Leu Gly Pro Pro Pro Thr Gly Leu His Leu Gln Arg
 165 170 175

Gly Ile Tyr Arg Glu Ile Leu Phe Leu Thr Met Ala Ala Leu Gly Lys
 180 185 190

Asp His Val Asp Ile Val Ala Phe Asp Lys Lys Tyr Lys Ser Ala Phe
 195 200 205

Asn Lys Leu Ala Ser Ser Met Gly Lys Glu Glu Leu Arg His Arg Arg

10004360 120701

210

215

220

Ala Gln Met Pro Thr Pro Lys Ala Ile Asp Cys Arg Lys Cys Phe Gly
 225 230 235 240

Ala Pro Pro Glu Cys
 245

<210> 370

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals stop translation

<400> 370

Met Lys Phe Ser Leu Leu Phe Leu Pro Met Leu Leu Ile Leu Lys Pro
 1 5 10 15

Asp Leu Phe His Ile Ser Ile Cys Thr Leu Ala Ala Cys Gly Leu Thr
 20 25 30

Phe Pro Xaa
 35

<210> 371

<211> 22

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals stop translation

<400> 371

Met Leu Phe Phe Phe Ile Leu His Leu Leu Ser Ile Met Ser Phe Leu
 1 5 10 15

Ser Pro Asp Ile Met Xaa
 20

<210> 372

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

J0004860-120701

<400> 372

Met Phe Gly Leu Leu Val Glu Ser Gln Thr Leu Leu Glu Glu Asn Ala
 1 5 10 15

Val Gln Gly Thr Glu Arg Thr Leu Gly Leu Asn Ile Ala Pro Phe Ile
 20 25 30

Asn Gln Phe Gln Val Pro Ile Arg Val Phe Leu Asp Leu Ser Ser Leu
 35 40 45

Pro Cys Ile Pro Leu Ser Lys Pro Val Glu Leu Leu Arg Leu Asp Leu
 50 55 60

Met Thr Pro Tyr Leu Asn Thr Ser Asn Arg Glu Val Lys Val Tyr Val
 65 70 75 80

Cys Xaa Ile Trp Glu Asp Leu Thr Ala Ile Pro Phe Trp Val Ser Tyr
 85 90 95

Val Pro

<210> 373

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 373

Met Phe Gly Ala His Arg Xaa Trp Gln Gly Ser Val Leu Leu Phe Leu
 1 5 10 15

Ser Phe Ala Trp Gly Asn Gly Gly Ser Val Thr Phe Ser Asp Val Pro
 20 25 30

Arg Val Met Pro Leu Ala Gly Gly Pro Xaa Xaa Gln Val Ser Ser Thr
 35 40 45

Pro Arg Pro Pro Pro His Gln Val Thr Ser Ser Pro Gly Leu Glu Ser
 50 55 60

Ala His Ile Val Cys Pro Glu Arg Lys Lys Lys Lys Lys Lys
 65 70 75

10004560-120701

<210> 374
 <211> 31
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals stop translation

<400> 374
 Thr Leu Leu Xaa Phe Leu Xaa Leu Leu Thr Thr Glu Gly Gly Arg Glu
 1 5 10 15
 Asn Ile Phe Xaa Gly Arg Ile Leu Xaa Leu Gln Xaa Ser Pro Xaa
 20 25 30

<210> 375
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (57)

10004850.120701

<223> Xaa equals stop translation

<400> 375

Met Leu Ser Phe Phe Ile Cys Leu Leu Ile Phe Val His Leu Leu Leu
1 5 10 15

Leu Ser Phe Leu Ile Ser Asp Trp Pro Pro Thr Gly Ser Ala Xaa
20 25 30

His Lys Ile Leu Arg Leu Met Val Val Gln Arg Leu Ser Leu Leu Asp
35 40 45

Gln Arg Lys Arg Trp Ser Glu Ala Xaa
50 55

<210> 376

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 376

Met Cys His His Ala Trp Leu Ile Phe Lys Phe Phe Val Xaa Met Gly
1 5 10 15

Ser His Tyr Val Ala Gln Ala Gly Phe Arg Phe Leu Cys Ser Arg Asp
20 25 30

Ser Ala Asn Leu Ala Pro Gln Ser Ala Gly Ile Thr Asn Val Ser His
35 40 45

Cys Ile Trp Pro Ile Phe Phe Phe Lys Lys Lys Met Gln Arg Cys
50 55 60

<210> 377

<211> 38

<212> PRT

<213> Homo sapiens

<400> 377

Met Thr Met Val Leu Cys Ile Phe Ile Leu Gly His His Ala Arg Glu
1 5 10 15

Asp Pro Pro Ser Asn Gly His Ile Thr Ser Glu Gly Ala Phe Leu Val
20 25 30

Asn Val Gly Ala Pro Gln
35

<210> 378

<211> 98

100040001

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 378
Met Leu Arg Leu Glu Ala Arg Ala Thr Thr Pro Gly Leu Gln Thr His
1 5 10 15

Ser Cys Leu Gly Phe Tyr Ile Lys Tyr Glu His Lys Asn Thr Phe Pro
20 25 30

Lys Tyr Ser Leu Trp Leu Cys Leu Thr Leu Gly Thr Xaa Pro Ser Thr
35 40 45

Ser Ser Ile Leu Arg Tyr Val Arg Gly Val Tyr Arg Gly Leu Glu Tyr
50 55 60

Ile Arg Phe Phe Ser Asn Ser Ser Ser Arg Arg Arg Leu Thr Thr
65 70 75 80

Ser Leu Gly Phe Lys Val Ser Gly Leu Lys Phe Pro Pro Glu Ile Thr
85 90 95

Ile Arg

<210> 379
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals stop translation

<400> 379
Thr Leu Thr Ser Phe Leu Glu Leu Pro Leu Ala Pro Glu Pro Xaa
1 5 10 15

<210> 380
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals stop translation

<400> 380
Met His Arg Tyr Ile Thr Phe Phe Lys Cys Phe Arg Ser Val Ile Leu

TO/021" 0924000

1 5 10 15
 Asp Leu Leu Phe Ile Leu Ser Pro Leu Ser Gln Gly Cys Phe Ile Leu
 20 25 30

Phe Xaa

<210> 381
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 381
 Met Phe Gly Phe Ile Phe Leu Leu Leu Ile Phe Cys Ile Xaa Leu Cys
 1 5 10 15

Ser Arg Thr Leu Ser Thr Phe Ile Pro Lys Leu Val Gly Phe Leu Tyr
 20 25 30

Trp Lys Phe Ser Ile Asn Leu Ser Leu Leu Leu Thr Leu Ile Lys Lys
 35 40 45

Lys Lys Lys Lys Lys Lys Thr Pro Arg Gly Gly Pro Gly Xaa Gln Ser
 50 55 60

Pro. Pro
 65

<210> 382
 <211> 317
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (207)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 382
 Met Pro Gly Leu Gly Arg Pro Arg Gln Ala Arg Trp Thr Leu Met Leu
 1 5 10 15

Leu Leu Ser Thr Ala Met Tyr Gly Ala His Ala Pro Leu Leu Ala Leu
 20 25 30

10004550-120701

Cys His Val Asp Gly Arg Val Pro Phe Arg Pro Ser Ser Ala Val Leu
 35 40 45
 Leu Thr Glu Leu Thr Lys Leu Leu Leu Cys Ala Phe Ser Leu Leu Val
 50 55 60
 Gly Trp Gln Ala Trp Pro Gln Gly Pro Pro Pro Trp Arg Gln Ala Ala
 65 70 75 80
 Pro Phe Ala Leu Ser Ala Leu Leu Tyr Gly Ala Asn Asn Asn Leu Val
 85 90 95
 Ile Tyr Leu Gln Arg Tyr Met Asp Pro Ser Thr Tyr Gln Val Leu Ser
 100 105 110
 Asn Leu Lys Ile Gly Ser Thr Ala Val Leu Tyr Cys Leu Cys Leu Arg
 115 120 125
 His Arg Leu Ser Val Arg Gln Gly Leu Ala Leu Leu Leu Met Ala
 130 135 140
 Ala Gly Ala Cys Tyr Ala Ala Gly Gly Leu Gln Val Pro Gly Asn Thr
 145 150 155 160
 Leu Pro Ser Pro Pro Pro Ala Ala Ala Ala Ser Pro Met Pro Leu His
 165 170 175
 Ile Thr Pro Leu Gly Leu Leu Leu Leu Ile Leu Tyr Cys Leu Ile Ser
 180 185 190
 Gly Leu Ser Ser Val Tyr Thr Glu Leu Leu Met Lys Arg Gln Xaa Leu
 195 200 205
 Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr Thr Phe Gly Val Leu Leu
 210 215 220
 Asn Leu Gly Leu His Ala Gly Gly Gly Ser Gly Pro Gly Leu Leu Glu
 225 230 235 240
 Gly Phe Ser Gly Trp Ala Ala Leu Val Val Leu Ser Gln Ala Leu Asn
 245 250 255
 Gly Leu Leu Met Ser Ala Val Met Lys His Gly Ser Ser Ile Thr Arg
 260 265 270
 Leu Phe Val Val Ser Cys Ser Leu Val Val Asn Ala Val Leu Ser Ala
 275 280 285
 Val Leu Leu Arg Leu Gln Leu Thr Ala Ala Phe Phe Leu Ala Thr Leu
 290 295 300
 Leu Ile Gly Leu Ala Met Arg Leu Tyr Tyr Gly Ser Arg
 305 310 315

<210> 383

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals stop translation

<400> 383

Met Gly Glu Gln Pro His Phe Ser Leu Cys Val Leu Leu Ala Ala Val
1 5 10 15

Arg Glu Asp Xaa Asp Pro Xaa Val Phe Pro Cys Cys Phe Leu Xaa
20 25 30

<210> 384

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals stop translation

<400> 384

Met Ser Phe Ile Ala Leu His Pro Leu Leu Pro Glu Ala Ala Leu Gly
1 5 10 15

Val Pro Gly Gln Ser Pro His Arg Pro Leu Trp Gln Thr Gln Cys Cys
20 25 30

Val Ala Pro Pro Gln Pro Arg Ala Glu Phe Xaa
35 40

<210> 385

<211> 255

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (255)

<223> Xaa equals stop translation

<400> 385

Met Val Thr Ala Leu Thr Leu Leu Ala Phe Pro Leu Leu Leu Leu His

10004560-120701

1	5	10	15
Ala Glu Arg Ile Ser Leu Val Phe Leu Leu Leu Phe Leu Gln Ser Phe	20	25	30
Leu Leu Leu His Leu Leu Ala Ala Gly Ile Pro Val Thr Thr Pro Gly	35	40	45
Pro Phe Thr Val Pro Trp Gln Ala Val Ser Ala Trp Ala Leu Met Ala	50	55	60
Thr Gln Thr Phe Tyr Ser Thr Gly His Gln Pro Val Phe Pro Ala Ile	65	70	75
His Trp His Ala Ala Phe Val Gly Phe Pro Glu Gly His Gly Ser Cys	85	90	95
Thr Trp Leu Pro Ala Leu Leu Val Gly Ala Asn Thr Phe Ala Ser His	100	105	110
Leu Leu Phe Ala Val Gly Cys Pro Leu Leu Leu Leu Trp Pro Phe Leu	115	120	125
Cys Glu Ser Gln Gly Leu Arg Lys Arg Gln Gln Pro Pro Gly Asn Glu	130	135	140
Ala Asp Ala Arg Val Arg Pro Glu Glu Glu Glu Glu Pro Leu Met Glu	145	150	155
Met Arg Leu Arg Asp Ala Pro Gln His Phe Tyr Ala Ala Leu Leu Gln	165	170	175
Leu Gly Leu Lys Tyr Leu Phe Ile Leu Gly Ile Gln Ile Leu Ala Cys	180	185	190
Ala Leu Ala Ala Ser Ile Leu Arg Arg His Leu Met Val Trp Lys Val	195	200	205
Phe Ala Pro Lys Phe Ile Phe Glu Ala Val Gly Phe Ile Val Ser Ser	210	215	220
Val Gly Leu Leu Leu Gly Ile Ala Leu Val Met Arg Val Asp Gly Ala	225	230	235
Val Ser Ser Trp Phe Arg Gln Leu Phe Leu Ala Gln Gln Arg Xaa	245	250	255

<210> 386

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

10004360-120701

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals stop translation

<400> 386
 Met Xaa Gly Pro Trp Gly Glu Glu Ala Leu Ile Arg Leu Pro Thr Pro
 1 5 10 15
 Ser Gly Leu Xaa
 20

<210> 387
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals stop translation

<400> 387
 Met Ala Thr Leu Glu Xaa Asn Gln Arg Glu Val Asp Arg Glu Ile Arg
 1 5 10 15
 Ser Leu Leu Leu Trp Phe Leu Leu Cys Glu Ile Val Ser Gly Trp Leu
 20 25 30
 Cys Pro Glu Gly Pro Trp Phe Ser Gln Gly Cys Gln Ile Tyr Lys Asn
 35 40 45
 Leu Ser Ser Ser Ser Ser Tyr Asn Leu Ser Phe Leu Leu Ser Leu Xaa
 50 55 60

<210> 388
 <211> 40
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals stop translation

<400> 388
 Met Ile His Ser Gly Cys Thr Ser Gln Cys Leu Glu Gly Phe Phe Leu
 1 5 10 15

10004360-120701

Ile Phe Leu Leu Asp Phe Asn Pro Val Leu Ala Leu Asp Leu Ile Gly
 20 25 30

Ile Met Arg Lys Ala Ser His Xaa
 35 40

<210> 389

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals stop translation

<400> 389

Met Val Phe Ser Ala Arg Val Ser Leu Tyr Thr Arg Phe Lys Val Ile
 1 5 10 15

Leu Leu Ser Leu Leu Ile Met Ile Leu His Val Cys Trp Val Trp Val
 20 25 30

Ile Leu Xaa
 35

<210> 390

<211> 11

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals stop translation

<400> 390

Gly Leu Leu Tyr Ile Met Tyr Cys Asn Ile Xaa
 1 5 10

<210> 391

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals stop translation

<400> 391

Met Asn Asn Gly Leu Leu Gln Gln Pro Ser Ala Leu Met Leu Leu Pro
 1 5 10 15

1000460-120701

Cys Arg Pro Val Leu Thr Ser Val Ala Leu Asn Ala Asn Phe Val Ser
 20 25 30

Trp Lys Ser Arg Thr Lys Tyr Thr Ile Thr Pro Val Lys Met Arg Lys
 35 40 45

Ser Gly Gly Arg Asp His Thr Gly Gly Asn Lys Asp Arg Gly Ile Xaa
 50 55 60

<210> 392

<211> 19

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals stop translation

<400> 392

Met Arg Lys Gln Arg Leu Val Pro Met Tyr Leu Gly Leu Ile Tyr Ile
 1 5 10 15

Leu Leu Xaa

<210> 393

<211> 43

<212> PRT

<213> Homo sapiens

<400> 393

Met Glu Ile Ser Val Ile Lys Ile Phe Gln Asp Glu Thr Thr Leu Lys
 1 5 10 15

Ile Lys Leu Cys Leu Val Ser Leu Ser Ser Leu Leu Val Ser Leu Leu
 20 25 30

Leu Leu Ile Leu Pro Glu Ser Thr Ser Leu Trp
 35 40

<210> 394

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals stop translation

<400> 394

10004860-120701

Leu Leu Leu Pro Val Leu Ala Ser Ser Val Pro Ser His Ser Ala Thr
 1 5 10 15

Xaa

<210> 395

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals stop translation

<400> 395

Met Leu Pro Leu Leu Leu Phe Thr Tyr Leu Asn Ser Phe Leu His Gln
 1 5 10 15

Arg Ile Pro Gln Ser Val Arg Ile Leu Gly Ser Leu Val Ala Ile Leu
 20 25 30

Leu Val Phe Leu Ile Thr Ala Ile Leu Val Lys Val Gln Leu Asp Ala
 35 40 45

Leu Pro Phe Phe Val Ile Thr Met Ile Lys Ile Val Leu Ile Asn Ser
 50 55 60

Phe Gly Ala Ile Leu Gln Gly Ser Leu Phe Gly Leu Ala Gly Leu Leu
 65 70 75 80

Pro Ala Ser Xaa

<210> 396

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals stop translation

<400> 396

Met Lys Leu Ser Leu Phe Leu Ile Leu Ser Asp Val Phe Tyr Leu Gly
 1 5 10 15

Ser Pro Xaa Thr Xaa
 20

10004860.120701

<210> 397
 <211> 29
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals stop translation

<400> 397
 Met Gly Thr Arg Arg Lys Gly Val Ala Trp Leu Ser Leu Ala Pro Leu
 1 5 10 15

Ile Thr Gly Leu Ala Pro Ala His Ile Thr Ala Val Xaa
 20 25

<210> 398
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals stop translation

<400> 398
 Met Lys Asp Leu Leu Gln Arg Asn Pro Trp Lys Asn Ser Leu Leu Leu
 1 5 10 15

Leu Gln Val Cys Gln Ala Phe Leu Val Cys Ser Leu Thr Gln Leu Ala
 20 25 30

Val Xaa

<210> 399
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals stop translation

<400> 399
 Met Ser Glu Ser His Lys Ile Trp Trp Cys Tyr Arg His Leu Ala Phe
 1 5 10 15

Pro Leu Leu Thr Leu Ile Leu Tyr Pro Ala Thr Leu Gly Arg Ser Val
 20 25 30

10004360-120701

Phe Cys His Asp Cys Lys Phe Pro Glu Ala Ser Pro Ala Met Xaa
 35 40 45

<210> 400

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals stop translation

<400> 400

Met Leu Asn Arg Ile Met Val Ala Ser Phe Gly Ala Val Leu Val Gln
 1 5 10 15

Val Cys Arg Gly Xaa Gly Gln Gly Xaa
 20 25

<210> 401

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals stop translation

<400> 401

Met Gln Leu Leu Leu Leu Gly Leu Ile Arg Ser Gln Pro Ser Pro Pro
 1 5 10 15

Pro Ser Leu Cys Leu Met Leu Cys Pro Cys Leu Pro Cys Leu Arg Tyr
 20 25 30

Ser Pro Phe Val Pro Gln His Pro Cys Pro Leu Pro Leu Asp Leu Cys
 35 40 45

Leu Ala Gly Cys Ser Ser Leu Ser Val Gln Asp Lys Cys Ser Trp Pro
 50 55 60

Tyr Pro Ile Xaa
 65

<210> 402

<211> 85

<212> PRT

<213> Homo sapiens

10004000120701

<400> 402

Met Lys Asp Ser Leu Cys Arg Val Ser Phe Leu Lys Asn Gln Ile Phe
 1 5 10 15

Leu Ser Tyr Ile Thr Leu Val Leu Ile Gly His Ala His Phe Ser Gly
 20 25 30

Val Pro His Tyr Asn Val Ser Phe Val Leu Arg Ile Asn Leu Gln Lys
 35 40 45

His Leu Lys Ile Thr Thr Ser Asn Gly Ile Glu Ser Lys Lys Thr Gly
 50 55 60

Glu Arg Gly Glu Thr Met Phe Phe Arg Thr Arg Gly Ser Thr His Ala
 65 70 75 80

Ser Ala Asp Ala Trp
 85

<210> 403

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 403

Met Gly Gly Ser Leu Leu Pro Gln Val Ser Ala Ala Val Leu Xaa Leu
 1 5 10 15

Asp Gly Leu Leu Leu Pro Gly Leu Lys Gly Cys Gly Pro Leu Arg Val
 20 25 30

Ser Phe Pro Gln Ala Lys Phe Lys Ala Ala Ala Leu Cys Glu Ala Leu
 35 40 45

Leu Ala Leu Gly Trp Arg Glu Asn Phe Lys Leu Phe Cys Ser Gln Gly
 50 55 60

Arg Gly Met Gly Pro Gly Cys Arg Cys Pro His Ser Ala Asn Glu Ser
 65 70 75 80

Phe Val

<210> 404

<211> 286

<212> PRT

<213> Homo sapiens

<400> 404

Met Ala Met Glu Gly Tyr Trp Arg Phe Leu Ala Leu Leu Gly Ser Ala

10004360-120701

1 5 10 15
 Leu Leu Val Gly Phe Leu Ser Val Ile Phe Ala Leu Val Trp Val Leu
 20 25 30
 His Tyr Arg Glu Gly Leu Gly Trp Asp Gly Ser Ala Leu Glu Phe Asn
 35 40 45
 Trp His Pro Val Leu Met Val Thr Gly Phe Val Phe Ile Gln Gly Ile
 50 55 60
 Ala Ile Ile Val Tyr Arg Leu Pro Trp Thr Trp Lys Cys Ser Lys Leu
 65 70 75 80
 Leu Met Lys Ser Ile His Ala Gly Leu Asn Ala Val Ala Ala Ile Leu
 85 90 95
 Ala Ile Ile Ser Val Val Ala Val Phe Glu Asn His Asn Val Asn Asn
 100 105 110
 Ile Ala Asn Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val
 115 120 125
 Ile Cys Tyr Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu
 130 135 140
 Pro Trp Ala Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val
 145 150 155 160
 Tyr Ser Gly Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met
 165 170 175
 Gly Leu Thr Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser
 180 185 190
 Thr Phe Pro Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile
 195 200 205
 Leu Val Phe Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp
 210 215 220
 Lys Arg Pro Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly
 225 230 235 240
 Thr Glu Gln Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn
 245 250 255
 Met Asp Lys Ser Asp Ser Glu Leu Asn Ser Glu Val Ala Ala Arg Lys
 260 265 270
 Arg Asn Leu Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met
 275 280 285

210> 405

211> 154

212> PRT

213> Homo sapiens

10004660120701

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (121)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (126)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (154)
 <223> Xaa equals stop translation

<400> 405
 Met Thr Lys Ala Arg Leu Phe Arg Leu Trp Leu Val Leu Gly Ser Val
 1 5 10 15

Phe Met Ile Leu Leu Ile Ile Val Tyr Trp Asp Ser Ala Gly Ala Ala
 20 25 30

10004860-120701

His Phe Tyr Leu His Thr Ser Phe Ser Arg Pro His Thr Gly Pro Pro
35 40 45

Leu Pro Thr Pro Gly Pro Asp Arg Asp Arg Glu Leu Thr Ala Asp Ser
50 55 60

Asp Val Asp Xaa Phe Leu Asp Xaa Phe Leu Ser Ala Gly Val Lys Gln
65 70 75 80

Ser Asp Xaa Pro Arg Lys Glu Thr Glu Gln Pro Pro Ala Pro Gly Ser
85 90 95

Met Glu Glu Ser Val Arg Xaa Tyr Asp Trp Ser Pro Arg Xaa Ala Arg
100 105 110

Arg Thr Gln Thr Arg Ala Gly Ser Xaa Arg Xaa Gly Gly Xaa Cys Cys
115 120 125

Gly Ala Ser Ala Pro Xaa Pro Ala Trp Pro Ser Pro Pro Arg Ser Ala
130 135 140

His Ser Thr Thr Ser Pro Thr Arg Ser Xaa
145 150

<210> 406

<211> 37

<212> PRT

<213> Homo sapiens

<400> 406

Met Leu Leu Leu Ile Val Leu Val Ala Asn Ile Leu Ser Met Ser Asn
1 5 10 15

Met Ser Asn Ala Val Val Ser Asp Leu His Ile Leu Val His Leu Ile
20 25 30

Ser His Lys Ala Asn
35

<210> 407

<211> 60

<212> PRT

<213> Homo sapiens

<400> 407

Met Cys Ile His Val Phe Met Ser Val Leu Trp Val Leu Phe Leu Leu
1 5 10 15

Asn Pro Leu Cys Thr Gly Leu Trp Pro Leu Val Asn Cys Phe Ser Val
20 25 30

Leu Arg His Ala Asp Trp Val Leu Gly Ala Asp Tyr Lys Gly Glu Glu
35 40 45

Leu Asn Arg His Gln Gly Pro Met Lys Pro Lys Asp
50 55 60

10004350-120701

<210> 408
 <211> 447
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (447)
 <223> Xaa equals stop translation

<400> 408
 Met Leu Leu Gly Leu Leu Met Ala Ala Cys Phe Thr Phe Cys Leu Ser
 1 5 10 15
 His Gln Asn Leu Lys Glu Phe Ala Leu Thr Asn Pro Glu Lys Ser Ser
 20 25 30
 Thr Lys Glu Thr Glu Arg Lys Glu Thr Lys Ala Glu Glu Glu Leu Asp
 35 40 45
 Ala Glu Val Leu Glu Val Phe His Pro Thr His Glu Trp Gln Ala Leu
 50 55 60
 Gln Pro Gly Gln Ala Val Pro Ala Gly Ser His Val Arg Leu Asn Leu
 65 70 75 80
 Gln Thr Gly Glu Arg Glu Ala Lys Leu Gln Tyr Glu Asp Lys Phe Arg
 85 90 95
 Asn Asn Leu Lys Gly Lys Arg Leu Asp Ile Asn Thr Asn Thr Tyr Thr
 100 105 110
 Ser Gln Asp Leu Lys Ser Ala Leu Ala Lys Phe Lys Glu Gly Ala Glu
 115 120 125
 Met Glu Ser Ser Lys Glu Asp Lys Ala Arg Gln Ala Glu Val Lys Arg
 130 135 140
 Leu Phe Arg Pro Ile Glu Glu Leu Lys Lys Asp Phe Asp Glu Leu Asn
 145 150 155 160
 Val Val Ile Glu Thr Asp Met Gln Ile Met Val Arg Leu Ile Asn Lys
 165 170 175
 Phe Asn Ser Ser Ser Ser Ser Leu Glu Glu Lys Ile Ala Ala Leu Phe
 180 185 190
 Asp Leu Glu Tyr Tyr Val His Gln Met Asp Asn Ala Gln Asp Leu Leu
 195 200 205
 Ser Phe Gly Gly Leu Gln Val Val Ile Asn Gly Leu Asn Ser Thr Glu
 210 215 220
 Pro Leu Val Lys Glu Tyr Ala Ala Phe Val Leu Gly Ala Ala Phe Ser
 225 230 235 240

1000460-120701

Phe Thr Pro Val Ser Ala Asp Cys Phe Phe Asn Val Leu Val Cys Phe
50 55 60

<210> 410
 <211> 24
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals stop translation

<400> 410
 Glu Leu Leu Phe Leu Leu Ile Ile Ile Leu Gly Glu Ser Leu Ser Asp
 1 5 10 15

Val Ile Leu Leu Ile Cys Phe Xaa
 20

<210> 411
 <211> 35
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals stop translation

<400> 411
 Met Phe Tyr Trp Gly Gly Leu Ser Phe Tyr Phe Leu Leu Ser Ser Gly
 1 5 10 15

Val Gly Phe Tyr Cys Phe Leu Phe Gly Phe Gly Met Glu Ile Trp Ile
 20 25 30

Ala Ala Xaa
 35

<210> 412
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 412
 Met Gly Lys Val Gly Trp Leu Met Val Gly Gly Val Ala Pro Gly Ile
 1 5 10 15

Arg Gly Gly Trp Gly Trp Thr Leu Gly Ile Met Val Gly Gly Ala Ile
 20 25 30

Ala His Cys Cys Cys Cys Leu Ile Arg
 35 40

10004860.120701

<210> 413
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals stop translation

<400> 413
 Met Lys Leu Ser Leu Leu Ile Leu Thr Leu Met Gln Arg Tyr Phe Arg
 1 5 10 15
 Thr Ile Thr Asn Ser Leu Cys Lys Xaa
 20 25

<210> 414
 <211> 79
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (79)
 <223> Xaa equals stop translation

<400> 414
 Met Pro Ala Val Ser Gly Pro Gly Pro Leu Phe Cys Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Asp Pro His Ser Pro Glu Thr Gly Cys Pro Pro Leu Arg Arg
 20 25 30
 Phe Glu Tyr Lys Leu Ser Phe Lys Gly Pro Arg Leu Ala Leu Pro Gly
 35 40 45
 Ala Gly Ile Pro Phe Trp Ser His His Gly Gly Glu Gly Gln Gly Trp
 50 55 60
 Gly Pro Leu Cys Pro Gly Ser Leu Lys Val Leu Glu Gly Leu Xaa
 65 70 75

<210> 415
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

10004850.120701

Gly Ser Asn Phe Cys Ser Glu Gln Lys Thr Ser Gly Ile Ile Asn Lys
165 170 175

Phe Cys Ser Ala Lys Asp Ser Glu His Asn Glu Lys Tyr Glu Asp Thr
180 185 190

Phe Leu Glu Ser Glu Glu Ile Gly Thr Lys Val Glu Val Val Glu Arg
195 200 205

Lys Glu His Leu His Thr Asp Ile Leu Lys Arg Gly Ser Glu Met Asp
210 215 220

Asn Asn Cys Ser Pro Thr Arg Lys Asp Phe Thr Glu Asp Thr Ile Pro
225 230 235 240

Arg Asn Thr Asp Arg Lys Lys Glu Asn Lys Pro Val Phe Phe Gln Gln
245 250 255

Ile

<210> 417

<211> 424

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 417

Met Glu Lys Gln Cys Cys Ser His Pro Val Ile Cys Ser Leu Ser Thr
1 5 10 15

Met Tyr Thr Phe Leu Leu Gly Ala Ile Phe Ile Ala Leu Ser Ser Ser
20 25 30

Arg Ile Leu Leu Val Lys Tyr Ser Ala Asn Glu Glu Asn Lys Tyr Asp
35 40 45

Tyr Leu Pro Thr Thr Val Asn Val Cys Ser Glu Leu Val Lys Leu Val
50 55 60

Phe Cys Val Leu Val Ser Phe Cys Val Ile Lys Lys Asp His Gln Ser
65 70 75 80

Arg Asn Leu Lys Tyr Ala Ser Trp Lys Glu Phe Ser Asp Phe Met Lys
85 90 95

Trp Ser Ile Pro Ala Phe Leu Tyr Phe Leu Asp Asn Leu Ile Val Phe
100 105 110

10004960-120701

Tyr Val Leu Ser Tyr Leu Gln Pro Ala Met Ala Val Ile Phe Ser Asn
 115 120 125
 Phe Ser Ile Ile Thr Thr Ala Leu Leu Phe Arg Ile Val Leu Lys Xaa
 130 135 140
 Arg Leu Asn Trp Ile Gln Trp Ala Ser Leu Leu Thr Leu Phe Leu Ser
 145 150 155 160
 Ile Val Ala Leu Thr Ala Gly Thr Lys Thr Leu Gln His Asn Leu Ala
 165 170 175
 Gly Arg Gly Phe His His Asp Ala Phe Phe Ser Pro Ser Asn Ser Cys
 180 185 190
 Leu Leu Phe Arg Asn Glu Cys Pro Arg Lys Asp Asn Cys Thr Ala Lys
 195 200 205
 Glu Trp Thr Phe Pro Glu Ala Lys Trp Asn Thr Thr Ala Arg Val Phe
 210 215 220
 Ser His Ile Arg Leu Gly Met Gly His Val Leu Ile Ile Val Gln Cys
 225 230 235 240
 Phe Ile Ser Ser Met Ala Asn Ile Tyr Asn Glu Lys Ile Leu Lys Glu
 245 250 255
 Gly Asn Gln Leu Thr Glu Xaa Ile Phe Ile Gln Asn Ser Lys Leu Tyr
 260 265 270
 Phe Phe Gly Ile Leu Phe Asn Gly Leu Thr Leu Gly Leu Gln Arg Ser
 275 280 285
 Asn Arg Asp Gln Ile Lys Asn Cys Gly Phe Phe Tyr Gly His Ser Ala
 290 295 300
 Phe Ser Val Ala Leu Ile Phe Val Thr Ala Phe Gln Gly Leu Ser Val
 305 310 315 320
 Ala Phe Ile Leu Lys Phe Leu Asp Asn Met Phe His Val Leu Met Ala
 325 330 335
 Gln Val Thr Thr Val Ile Ile Thr Thr Val Ser Val Leu Val Phe Asp
 340 345 350
 Phe Arg Pro Ser Leu Glu Phe Phe Leu Glu Ala Pro Ser Val Leu Leu
 355 360 365
 Ser Ile Phe Ile Tyr Asn Ala Ser Lys Pro Gln Val Pro Glu Tyr Ala
 370 375 380
 Pro Arg Gln Glu Arg Ile Arg Asp Leu Ser Gly Asn Leu Trp Glu Arg
 385 390 395 400
 Ser Ser Gly Asp Gly Glu Glu Leu Glu Arg Leu Thr Lys Pro Lys Ser
 405 410 415

10004550-120701

Asp Glu Ser Asp Glu Asp Thr Phe
420

<210> 418
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals stop translation

<400> 418
Met Trp Gly Gln Gly Ser Gln Lys Ser His Phe Ser Asp Leu Val Phe
1 5 10 15

Gly Val Arg Glu Leu Cys Ala Gln Pro Ser Asp Pro Gly Ser Pro His
20 25 30

Xaa

<210> 419
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals stop translation

<400> 419
Met Val Gln His Ile Gln Pro Ala Ala Leu Ser Leu Leu Ala Gln Trp
1 5 10 15

Ser Thr Leu Val Gln Glu Leu Glu Ala Ala Leu Gln Leu Ala Phe Tyr
20 25 30

Pro Asp Ala Val Glu Glu Trp Leu Glu Glu Asn Val His Pro Ser Leu
35 40 45

Gln Arg Leu Gln Xaa Leu Leu Gln Asp Leu Ser Glu Val Ser Ala Pro
50 55 60

Pro Leu Pro Pro Thr Ser Pro Gly Arg Asp Val Ala Gln Asp Pro Xaa
65 70 75 80

10004360-120701

<210> 420
 <211> 95
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (82)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (95)
 <223> Xaa equals stop translation

<400> 420
 Met Leu Asn Gln Gly Tyr Ile Arg Lys Ile Ile Leu Ile Ile Ile Leu
 1 5 10 15
 Gly Ser Phe Ser Ser Pro Lys Lys Ala Ile Leu Met Gly Phe Gln Asn
 20 25 30
 Gln Lys Lys Ala Leu Asn Glu Glu Gln Thr Thr Gly Val Pro Met Ser
 35 40 45
 Ile Ser Gly Lys Leu Arg Pro Ser Arg Ser Leu Asp Phe Val Gln Pro
 50 55 60
 Pro Arg Phe Gln Ser Gln Gln Pro Ser Ala Val Val Asp Arg Arg Gly
 65 70 75 80
 Phe Xaa Xaa Lys Ala Ala Arg Gly Gln Glu Phe Ser Glu Ser Xaa
 85 90 95

<210> 421
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 421
 Met Arg Gly Pro Ala Gln Ala Lys Leu Leu Pro Gly Ser Ala Ile Gln
 1 5 10 15
 Ala Leu Val Gly Leu Ala Arg Pro Leu Val Leu Ala Leu Leu Val
 20 25 30
 Ser Ala Ala Leu Ser Ser Val Val Ser Arg Thr Asp Ser Pro Ser Pro
 35 40 45
 Thr Val Leu Asn Ser His Ile Ser Thr Pro Asn Val Asn Ala Leu Thr

10004660-120701

50 55 60
 His Glu Asn Gln Thr Lys Pro Ser Ile Ser Gln Ile Ser Thr Thr Leu
 65 70 75 80
 Pro Pro Thr Thr Ser Thr Lys Lys Ser Gly Gly Ala Ser Val Val Pro
 85 90 95
 His Pro Ser Pro Thr Pro Leu Ser Gln Glu Glu Ala Asp Asn Asn Glu
 100 105 110
 Asp Pro Ser Ile Glu Glu Glu Asp Leu Leu Met Leu Asn Ser Ser Pro
 115 120 125
 Ser Thr Ala Lys Asp Thr Leu Asp Asn Gly Asp Tyr Gly Glu Pro Asp
 130 135 140
 Tyr Asp Trp Thr Thr Gly Pro Arg Asp Asp Asp Glu Ser Asp Asp Thr
 145 150 155 160
 Leu Glu Glu Asn Arg Gly Tyr Met Glu Ile Glu Gln Ser Val Lys Ser
 165 170 175
 Phe Lys Met Pro Ser Ser Asn Ile Glu Glu Glu Asp Ser His Phe Phe
 180 185 190
 Phe His Leu Ile Ile Phe Ala Phe Cys Ile Ala Val Val Tyr Ile Thr
 195 200 205
 Tyr His Asn Lys Arg Lys Ile Phe Leu Leu Val Gln Ser Arg Lys Trp
 210 215 220
 Arg Asp Gly Leu Cys Ser Lys Thr Val Glu Tyr His Arg Leu Asp Gln
 225 230 235 240
 Asn Val Asn Glu Ala Met Pro Ser Leu Lys Ile Thr Asn Asp Tyr Ile
 245 250 255
 Phe

<210> 422
 <211> 704
 <212> PRT
 <213> Homo sapiens

<400> 422
 Met Trp Tyr Arg Leu Arg Leu Leu Lys Pro Gln Pro Asn Ile Ile Pro
 1 5 10 15
 Thr Val Lys Lys Ile Val Leu Leu Ala Gly Trp Ala Leu Phe Leu Phe
 20 25 30
 Leu Ala Tyr Lys Val Ser Lys Thr Asp Arg Glu Tyr Gln Glu Tyr Asn
 35 40 45
 Pro Tyr Glu Val Leu Asn Leu Asp Pro Gly Ala Thr Val Ala Glu Ile

10004360.120701

50

55

60

Lys Lys Gln Tyr Arg Leu Leu Ser Leu Lys Tyr His Pro Asp Lys Gly
 65 70 75 80
 Gly Asp Glu Val Met Phe Met Arg Ile Ala Lys Ala Tyr Ala Ala Leu
 85 90 95
 Thr Asp Glu Glu Ser Arg Lys Asn Trp Glu Glu Phe Gly Asn Pro Asp
 100 105 110
 Gly Pro Gln Ala Thr Ser Phe Gly Ile Ala Leu Pro Ala Trp Ile Val
 115 120 125
 Asp Gln Lys Asn Ser Ile Leu Val Leu Leu Val Tyr Gly Leu Ala Phe
 130 135 140
 Met Val Ile Leu Pro Val Val Val Gly Ser Trp Trp Tyr Arg Ser Ile
 145 150 155 160
 Arg Tyr Ser Gly Asp Gln Ile Leu Ile Arg Thr Thr Gln Ile Tyr Thr
 165 170 175
 Tyr Phe Val Tyr Lys Thr Arg Asn Met Asp Met Lys Arg Leu Ile Met
 180 185 190
 Val Leu Ala Gly Ala Ser Glu Phe Asp Pro Gln Tyr Asn Lys Asp Ala
 195 200 205
 Thr Ser Arg Pro Thr Asp Asn Ile Leu Ile Pro Gln Leu Ile Arg Glu
 210 215 220
 Ile Gly Ser Ile Asn Leu Lys Lys Asn Glu Pro Pro Leu Thr Cys Pro
 225 230 235 240
 Tyr Ser Leu Lys Ala Arg Val Leu Leu Leu Ser His Leu Ala Arg Met
 245 250 255
 Lys Ile Pro Glu Thr Leu Glu Glu Asp Gln Gln Phe Met Leu Lys Lys
 260 265 270
 Cys Pro Ala Leu Leu Gln Glu Met Val Asn Val Ile Cys Gln Leu Ile
 275 280 285
 Val Met Ala Arg Asn Arg Glu Glu Arg Glu Phe Arg Ala Pro Thr Leu
 290 295 300
 Ala Ser Leu Glu Asn Cys Met Lys Leu Ser Gln Met Ala Val Gln Gly
 305 310 315 320
 Leu Gln Gln Phe Lys Ser Pro Leu Leu Gln Leu Pro His Ile Glu Glu
 325 330 335
 Asp Asn Leu Arg Arg Val Ser Asn His Lys Lys Tyr Lys Ile Lys Thr
 340 345 350
 Ile Gln Asp Leu Val Ser Leu Lys Glu Ser Asp Arg His Thr Leu Leu
 355 360 365

10004360-120701

His Phe Leu Glu Asp Glu Lys Tyr Glu Glu Val Met Ala Val Leu Gly
 370 375 380
 Ser Phe Pro Tyr Val Thr Met Asp Ile Lys Ser Gln Val Leu Asp Asp
 385 390 395 400
 Glu Asp Ser Asn Asn Ile Thr Val Gly Ser Leu Val Thr Val Leu Val
 405 410 415
 Lys Leu Thr Arg Gln Thr Met Ala Glu Val Phe Glu Lys Glu Gln Ser
 420 425 430
 Ile Cys Ala Ala Glu Glu Gln Pro Ala Glu Asp Gly Gln Gly Glu Thr
 435 440 445
 Asn Lys Asn Arg Thr Lys Gly Gly Trp Gln Gln Lys Ser Lys Gly Pro
 450 455 460
 Lys Lys Thr Ala Lys Ser Lys Lys Lys Lys Pro Leu Lys Lys Lys Pro
 465 470 475 480
 Thr Pro Val Leu Leu Pro Gln Ser Lys Gln Gln Lys Gln Lys Gln Ala
 485 490 495
 Asn Gly Val Val Gly Asn Glu Ala Ala Val Lys Glu Asp Glu Glu Glu
 500 505 510
 Val Ser Asp Lys Gly Ser Asp Ser Glu Glu Glu Glu Thr Asn Arg Asp
 515 520 525
 Ser Gln Ser Glu Lys Asp Asp Gly Ser Asp Arg Asp Ser Asp Arg Glu
 530 535 540
 Gln Asp Glu Lys Gln Asn Lys Asp Asp Glu Ala Glu Trp Gln Glu Leu
 545 550 555 560
 Gln Gln Ser Ile Gln Arg Lys Glu Arg Ala Leu Leu Glu Thr Lys Ser
 565 570 575
 Lys Ile Thr His Pro Val Tyr Ser Leu Tyr Phe Pro Glu Glu Lys Gln
 580 585 590
 Glu Trp Trp Trp Leu Tyr Ile Ala Asp Arg Lys Glu Gln Thr Leu Ile
 595 600 605
 Ser Met Pro Tyr His Val Cys Thr Leu Lys Asp Thr Glu Glu Val Glu
 610 615 620
 Leu Lys Phe Pro Ala Pro Gly Lys Pro Gly Asn Tyr Gln Tyr Thr Val
 625 630 635 640
 Phe Leu Arg Ser Asp Ser Tyr Met Gly Leu Asp Gln Ile Lys Pro Leu
 645 650 655
 Lys Leu Glu Val His Glu Ala Lys Pro Val Pro Glu Asn His Pro Gln
 660 665 670

10004360-120701

Trp Asp Thr Ala Ile Glu Gly Asp Glu Asp Gln Glu Asp Ser Glu Gly
675 680 685

Phe Glu Asp Ser Phe Glu Glu Glu Glu Glu Glu Glu Asp Asp Asp
690 695 700

<210> 423
<211> 190
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 423
Met Lys Ala Ser Gln Cys Cys Cys Cys Leu Ser His Leu Leu Ala Ser
1 5 10 15

Val Leu Leu Leu Leu Leu Leu Pro Glu Leu Ser Gly Xaa Leu Xaa Val
20 25 30

Leu Leu Gln Ala Ala Glu Ala Ala Pro Gly Leu Gly Pro Pro Asp Pro
35 40 45

Arg Pro Arg Thr Leu Pro Pro Leu Pro Pro Gly Pro Thr Pro Ala Gln
50 55 60

Gln Pro Gly Arg Gly Leu Ala Glu Ala Ala Gly Pro Arg Gly Ser Glu
65 70 75 80

Gly Gly Asn Gly Ser Asn Pro Val Ala Gly Leu Glu Thr Asp Asp His
85 90 95

Gly Gly Lys Ala Gly Glu Gly Ser Val Gly Gly Gly Leu Ala Val Ser
100 105 110

Pro Asn Pro Gly Asp Lys Pro Met Thr Gln Arg Ala Leu Thr Val Leu
115 120 125

Met Val Val Ser Gly Ala Val Leu Val Tyr Phe Val Val Arg Thr Val
130 135 140

Arg Met Arg Arg Arg Asn Arg Lys Thr Arg Arg Tyr Gly Val Leu Asp
145 150 155 160

Thr Asn Ile Glu Asn Met Glu Leu Thr Pro Leu Glu Gln Asp Asp Glu
165 170 175

1004560-120701

Asp Asp Asp Asn Thr Leu Phe Asp Ala Asn His Pro Arg Arg
 180 185 190

<210> 424
 <211> 179
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (179)
 <223> Xaa equals stop translation

<400> 424
 Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile
 1 5 10 15
 Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser
 20 25 30
 Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp
 35 40 45
 Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro
 50 55 60
 Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly
 65 70 75 80
 Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys
 85 90 95
 Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser
 100 105 110
 Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly
 115 120 125
 Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys
 130 135 140
 Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile
 145 150 155 160
 Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His
 165 170 175
 Cys Arg Xaa

<210> 425
 <211> 40
 <212> PRT
 <213> Homo sapiens

10004360-120701

<400> 425

Met Phe Lys Cys Leu Gln Thr Thr Phe Leu Phe Ile Leu Asp Phe Thr
 1 5 10 15

Trp Glu Ser Lys Val Gln Phe His Lys Ala Ser Val Tyr Leu Ser Leu
 20 25 30

Ser Ile Tyr Ile Asp Cys His Ala
 35 40

<210> 426

<211> 232

<212> PRT

<213> Homo sapiens

<400> 426

Met Leu Ala Gly Lys Leu Ile Pro Val His Gln Val Arg Gly Leu Lys
 1 5 10 15

Glu Lys Ile Val Arg Ser Phe Glu Val Ser Pro Asp Gly Ser Phe Leu
 20 25 30

Leu Ile Asn Gly Ile Ala Gly Tyr Leu His Leu Leu Ala Met Lys Thr
 35 40 45

Lys Glu Leu Ile Gly Ser Met Lys Ile Asn Gly Arg Val Ala Ala Ser
 50 55 60

Thr Phe Ser Ser Asp Ser Lys Lys Val Tyr Ala Ser Ser Gly Asp Gly
 65 70 75 80

Glu Val Tyr Val Trp Asp Val Asn Ser Arg Lys Cys Leu Asn Arg Phe
 85 90 95

Val Asp Glu Gly Ser Leu Tyr Gly Leu Ser Ile Ala Thr Ser Arg Asn
 100 105 110

Gly Gln Tyr Val Ala Cys Gly Ser Asn Cys Gly Val Val Asn Ile Tyr
 115 120 125

Asn Gln Asp Ser Cys Leu Gln Glu Thr Asn Pro Lys Pro Ile Lys Ala
 130 135 140

Ile Met Asn Leu Val Thr Gly Val Thr Ser Leu Thr Phe Asn Pro Thr
 145 150 155 160

Thr Glu Ile Leu Ala Ile Ala Ser Glu Lys Met Lys Glu Ala Val Arg
 165 170 175

Leu Val His Leu Pro Ser Cys Thr Val Phe Ser Asn Phe Pro Val Ile
 180 185 190

Lys Asn Lys Asn Ile Ser His Val His Thr Met Asp Phe Ser Pro Arg
 195 200 205

Ser Gly Tyr Phe Ala Leu Gly Asn Glu Lys Gly Lys Ala Leu Met Tyr
 210 215 220

10004360-120701

Arg Leu His His Tyr Ser Asp Phe
225 230

<210> 427

<211> 250

<212> PRT

<213> Homo sapiens

<400> 427

Met Arg Ile Leu Gln Leu Ile Leu Leu Ala Leu Ala Thr Gly Leu Val
1 5 10 15

Gly Gly Glu Thr Arg Ile Ile Lys Gly Phe Glu Cys Lys Pro His Ser
20 25 30

Gln Pro Trp Gln Ala Ala Leu Phe Glu Lys Thr Arg Leu Leu Cys Gly
35 40 45

Ala Thr Leu Ile Ala Pro Arg Trp Leu Leu Thr Ala Ala His Cys Leu
50 55 60

Lys Pro Arg Tyr Ile Val His Leu Gly Gln His Asn Leu Gln Lys Glu
65 70 75 80

Glu Gly Cys Glu Gln Thr Arg Thr Ala Thr Glu Ser Phe Pro His Pro
85 90 95

Gly Phe Asn Asn Ser Leu Pro Asn Lys Asp His Arg Asn Asp Ile Met
100 105 110

Leu Val Lys Met Ala Ser Pro Val Ser Ile Thr Trp Ala Val Arg Pro
115 120 125

Leu Thr Leu Ser Ser Arg Cys Val Thr Ala Gly Thr Ser Cys Leu Ile
130 135 140

Ser Gly Trp Gly Ser Thr Ser Ser Pro Gln Leu Arg Leu Pro His Thr
145 150 155 160

Leu Arg Cys Ala Asn Ile Thr Ile Ile Glu His Gln Lys Cys Glu Asn
165 170 175

Ala Tyr Pro Gly Asn Ile Thr Asp Thr Met Val Cys Ala Ser Val Gln
180 185 190

Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val
195 200 205

Cys Asn Gln Ser Leu Gln Gly Ile Ile Ser Trp Gly Gln Asp Pro Cys
210 215 220

Ala Ile Thr Arg Lys Pro Gly Val Tyr Thr Lys Val Cys Lys Tyr Val
225 230 235 240

Asp Trp Ile Gln Glu Thr Met Lys Asn Asn
245 250

10004860-120701

<210> 428
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 428
 Met Trp Thr Lys Asn Asp Lys Leu Lys Lys Phe Phe Phe Leu Arg Tyr
 1 5 10 15
 Leu Gln Asn Met Val Tyr Phe Tyr Val Glu Lys Lys Ser Tyr Glu Gly
 20 25 30
 Ser Cys Tyr Phe Lys Arg Lys Phe Ile Lys Ser Pro Arg Gly Met Lys
 35 40 45
 Met Thr Ala Cys Phe Ser Ile Ile Leu Ala
 50 55

<210> 429
 <211> 219
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (219)
 <223> Xaa equals stop translation

<400> 429
 Met Ala Val Val Leu Leu Ala Asn Leu Ala Gln Gly Asp Ser Leu Ala
 1 5 10 15
 Ala Arg Ala Ile Ala Val Gln Lys Gly Ser Ile Gly Asn Leu Gly
 20 25 30
 Phe Leu Glu Asp Ser Leu Ala Ala Thr Gln Phe Gln Gln Ser Gln Ala
 35 40 45
 Ser Leu Leu His Met Gln Asn Pro Pro Phe Glu Pro Xaa Ser Val Asp
 50 55 60

10004360-120701

Met Met Arg Arg Ala Ala Arg Ala Leu Leu Ala Leu Ala Lys Val Asp
65 70 75 80

Glu Asn His Ser Glu Phe Thr Leu Tyr Glu Ser Arg Leu Leu Asp Ile
85 90 95

Ser Val Ser Pro Leu Met Asn Ser Xaa Val Ser Gln Val Ile Cys Asp
100 105 110

Val Leu Phe Leu Xaa Trp Pro Val Met Thr Ala Val Gly His Leu Pro
115 120 125

Pro Pro Cys Val Cys Ala Cys Val Glu Asn Leu Glu Thr Asp Cys Cys
130 135 140

Pro Leu Phe Met Gln Asn His Leu Arg Ile Gln Phe Thr Leu Cys Cys
145 150 155 160

Pro Ala Ser Pro Leu Gly Lys Ser Leu Ser Cys Phe Ser Leu Leu Leu
165 170 175

Pro Pro Pro Leu Pro Pro Ser Pro His Ala Phe Leu Phe Leu Val Leu
180 185 190

Thr Leu Leu Pro Ser Gly Pro Tyr Pro Thr Leu Phe Glu Lys Thr Lys
195 200 205

Leu Cys Leu His Arg Arg Leu Phe Leu Phe Xaa
210 215

<210> 430.

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals stop translation

<400> 430

Met Leu Pro Asp Glu Ser Phe Gly Leu Leu Leu Ser Ile Pro Ser Leu
1 5 10 15

Thr Pro Ser Ala Ala Ala Pro Ser Phe Cys Val His Leu Met Gln Ala
20 25 30

Ser Arg Ser Ser Lys Arg Ala Ser His Val Pro Val His Leu Leu Trp
35 40 45

Gly Asp Xaa
50

<210> 431

<211> 50

10004360-120701

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals stop translation

<400> 431
 Met Arg Pro Gly Ser Phe Ser Phe Ile Ala Phe Leu Ala Thr Glu Val
 1 5 10 15

Ser Ser Cys Phe Pro Gly Arg Pro Asp Cys Xaa Thr Gly Met Trp Leu
 20 25 30

Leu Gln Leu Gln Lys Lys Gln Arg Thr Leu Leu Ala Met Ala Pro Arg
 35 40 45

Arg Xaa
 50

<210> 432
 <211> 70
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals stop translation

<400> 432
 Asp Arg Pro Cys Pro Ser Ser Leu Trp Lys Val Phe Pro Leu Leu Leu
 1 5 10 15

Leu Leu Met Arg Leu Phe Pro Leu Pro Val Pro Gly Asn Gln Arg Ala
 20 25 30

10004850-120701

Xaa Leu Pro His Pro Phe Xaa Ala Pro Arg Leu Pro Cys Leu Leu Cys
35 40 45

Leu Cys Thr Gln Gln Phe Xaa Val Cys Ser His Tyr Leu Pro Ala Gly
50 55 60

Tyr Arg Val Asn Ser Xaa
65 70

<210> 433

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals stop translation

<400> 433

Met His Glu Lys Ala Trp Asn Leu Ile Leu Leu Trp Trp Leu Ser Leu
1 5 10 15

Asp Leu Leu Gly Val Ala Lys Thr Ala Met Trp Ala Gln Trp Cys Gly
20 25 30

Leu Asn Asp His Lys Gly Lys Xaa
35 40

<210> 434

<211> 104

<212> PRT

<213> Homo sapiens

<400> 434

Met Ala Phe Val Leu Leu Phe Cys Phe Val Gly Leu Gln Ser Ser Arg
1 5 10 15

Ala Gly Pro Tyr Ser Glu Leu Val Leu Cys Gln Thr Pro Ala Ser Ala
20 25 30

Pro Asp Pro Val Ser Thr Leu Cys Val Leu Glu Glu Glu Pro Leu Asp
35 40 45

Ala Tyr Pro Asp Ser Pro Ser Ala Cys Leu Val Leu Asn Trp Glu Glu
50 55 60

Pro Cys Asn Asn Gly Ser Glu Ile Leu Ala Tyr Thr Ile Asp Leu Gly
65 70 75 80

Asp Thr Ser Ile Thr Val Gly Asn Thr Thr Met His Val Met Lys Asp
85 90 95

Leu Leu Pro Glu Thr Thr Tyr Arg
100

10004360-120701

<210> 435
 <211> 38
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals stop translation

<400> 435
 Met Phe Ser Leu Leu Trp Leu Val Cys Val Pro Ser Asn Ser Ser Val
 1 5 10 15

Ala Asn Val Thr Ala Ser Arg Gly Gly Val Phe Lys Arg Ser Leu Gly
 20 25 30

His Glu Gly Phe Ser Xaa
 35

<210> 436
 <211> 35
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals stop translation

<400> 436
 Lys Trp Leu Leu Phe Ile Phe Leu Leu Cys Leu Gln Leu Val Asn Ala
 1 5 10 15

Leu Leu Ser Leu Phe Gln Glu Arg Phe Val His Cys Pro Ala Arg Phe
 20 25 30

Val Ser Xaa
 35

<210> 437
 <211> 32
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals stop translation

<400> 437
 Met Leu Leu Phe Leu Ser Ile Thr Asn Ser Leu Ser Phe Ile Ser Val
 1 5 10 15

10004360-10001

Asp Lys Pro Phe Gly Gln Ser Glu Asp Val Cys Pro Val Ile Ser Xaa
 20 25 30

<210> 438

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals stop translation

<400> 438

Met Glu Phe Leu Phe Asn Lys Thr Gly Trp Ala Phe Ala Ala Leu Cys
 1 5 10 15

Phe Val Leu Ala Met Thr Ser Gly Gln Met Trp Asn His Ile Arg Gly
 20 25 30

Pro Pro Tyr Ala His Lys Asn Pro His Thr Gly His Val Asn Tyr Ile
 35 40 45

His Gly Ser Ser Gln Ala Gln Phe Val Ala Glu Thr His Ile Val Leu
 50 55 60

Leu Phe Asn Gly Gly Val Thr Leu Gly Met Val Leu Leu Cys Glu Ala
 65 70 75 80

Ala Thr Ser Asp Met Asp Ile Gly Lys Arg Lys Ile Met Cys Val Ala
 85 90 95

Gly Ile Gly Leu Val Val Leu Phe Phe Ser Trp Met Leu Ser Ile Phe
 100 105 110

Arg Ser Lys Tyr His Gly Tyr Pro Tyr Ser Phe Leu Met Ser Xaa
 115 120 125

<210> 439

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals stop translation

10004380-120701

<400> 439

Met Thr Trp His Ser Arg Glu Ser Phe Xaa Leu Leu Arg Val Val Ala
 1 5 10 15

Pro Ser Gln Ala Pro Gly Met Gln Val Ser Pro Ser Gln Arg Ala Trp
 20 25 30

Arg Arg Pro Leu His Arg Cys His Val Ala Ala Pro Arg Pro His His
 35 40 45

Phe Ala Phe Phe Arg Asn Pro Phe Ser Trp Ser Phe Ile Lys Leu Leu
 50 55 60

Tyr Arg Tyr Leu Xaa
 65

<210> 440

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals stop translation

<400> 440

Met Gly Leu Lys Leu Asn Gly Arg Tyr Ile Ser Leu Ile Leu Ala Val
 1 5 10 15

Gln Ile Ala Tyr Leu Val Gln Ala Val Arg Ala Ala Gly Lys Cys Asp
 20 25 30

Ala Val Phe Lys Gly Phe Ser Asp Cys Leu Leu Lys Leu Gly Asp Thr
 35 40 45

Trp Pro Thr Thr Arg Ser Leu Gly Arg Gln Asp Glu His Gln Asp Arg
 50 55 60

Val His Ile Leu Gly Gly Phe Pro Gln Leu His Gly His Ser Pro Tyr
 65 70 75 80

Gly Leu Pro Gly Arg Gly Glu Arg Tyr Val Gly Xaa
 85 90

<210> 441

<211> 380

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (264)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

10004360.120701

<221> SITE
 <222> (296)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (380)
 <223> Xaa equals stop translation

<400> 441

Met Ala Arg Arg Ser Ala Phe Pro Ala Ala Ala Leu Trp Leu Trp Ser
 1 5 10 15

Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro Pro Gln
 20 25 30

Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala Arg Val Leu
 35 40 45

Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu Gly Lys Met Ala
 50 55 60

Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln Arg Met Pro Ala Ile
 65 70 75 80

Pro Val Asn Ile His Ser Met Asn Phe Thr Trp Gln Ala Ala Gly Gln
 85 90 95

Ala Glu Tyr Phe Tyr Glu Phe Leu Ser Leu Arg Ser Leu Asp Lys Gly
 100 105 110

Ile Met Ala Asp Pro Thr Val Asn Val Pro Leu Leu Gly Thr Val Pro
 115 120 125

His Lys Ala Ser Val Val Gln Val Gly Phe Pro Cys Leu Gly Lys Gln
 130 135 140

Asp Gly Val Ala Ala Phe Glu Val Asp Val Ile Val Met Asn Ser Glu
 145 150 155 160

Gly Asn Thr Ile Leu Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr
 165 170 175

Cys Gln Gln Ala Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys
 180 185 190

Asn Glu Arg Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His
 195 200 205

Cys Glu Lys Ala Leu Cys Thr Pro Arg Cys Met Asn Gly Gly Leu Cys
 210 215 220

Val Thr Pro Gly Phe Cys Ile Cys Pro Pro Gly Phe Tyr Gly Val Asn
 225 230 235 240

Cys Asp Lys Ala Asn Cys Ser Thr Thr Cys Phe Asn Gly Gly Thr Cys
 245 250 255

10004860-120701

Phe Tyr Pro Gly Lys Cys Ile Xaa Pro Pro Gly Leu Glu Gly Glu Gln
260 265 270

Cys Glu Ile Ser Lys Cys Pro Gln Pro Cys Arg Asn Gly Gly Lys Cys
275 280 285

Ile Gly Lys Ser Lys Cys Lys Xaa Ser Lys Gly Tyr Gln Gly Asp Leu
290 295 300

Cys Ser Lys Pro Val Cys Glu Pro Gly Cys Gly Ala His Gly Thr Cys
305 310 315 320

His Glu Pro Asn Lys Cys Gln Cys Gln Glu Gly Trp His Gly Arg His
325 330 335

Cys Asn Lys Arg Tyr Glu Ala Ser Leu Ile His Ala Leu Arg Pro Ala
340 345 350

Gly Ala Gln Leu Arg Gln His Thr Pro Ser Leu Lys Lys Ala Glu Glu
355 360 365

Arg Arg Asp Pro Pro Glu Ser Asn Tyr Ile Trp Xaa
370 375 380

<210> 442

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals stop translation

<400> 442

Met Thr Ser Asn Leu Leu Leu Thr Leu Leu Lys Asp Thr Leu
1 5 10 15

Xaa Leu Ala Lys Xaa Asn Xaa Xaa
20

10004560-120701

<210> 443
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals stop translation

<400> 443
 Met Arg His His Thr Gln Leu Asn Phe Ile Phe Leu Val Glu Met Val
 1 5 10 15
 Phe Leu His Val Gly Gln Ala Gly Leu Lys Leu Pro Thr Ser Gly Asp
 20 25 30
 Xaa Ala Cys Phe Gly Leu Pro Lys Val Leu Gly Leu Gln Ala Xaa
 35 40 45

<210> 444
 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 444
 Met Gln Val Thr Ile Thr Leu Thr Ser Pro Ile Ile Arg Glu Glu Asn
 1 5 10 15
 Met Arg Glu Gly Asp Val Thr Ser Gly Met Val Lys Asp Pro Pro Asp
 20 25 30
 Val Leu Asp Arg Gln Lys Cys Leu Asp Ala Leu Ala Ala Leu Arg His
 35 40 45
 Ala Lys Trp Phe Gln Ala Arg Ala Asn Gly Leu Gln Ser Cys Val Ile
 50 55 60
 Ile Ile Arg Ile Leu Arg Asp Leu Cys Gln Arg Val Pro Thr Trp Ser
 65 70 75 80
 Asp Phe Pro Ser Trp Ala Met Glu Leu Leu Val Glu Lys Ala Ile Ser
 85 90 95
 Ser Ala Ser Ser Pro Gln Ser Pro Gly Asp Ala Leu Arg Arg Val Phe
 100 105 110
 Glu Cys Ile Ser Ser Gly Ile Ile Leu Lys Gly Ser Pro Gly Leu Leu
 115 120 125
 Asp Pro Cys Glu Lys Asp Pro Phe Asp Thr Leu Ala Thr Met Thr Asp
 130 135 140

10004860.120701

Gln Gln Arg Glu Asp Ile Thr Ser Ser Ala Gln Phe Ala Leu Arg Leu
145 150 155 160

Leu Ala Phe Arg Gln Ile His Lys Val Leu Gly Met Asp Pro Leu Pro
165 170 175

Gln Met Ser Gln Arg Phe Asn Ile His Asn Asn Arg Lys Arg Arg Arg
180 185 190

Asp Ser Asp Gly Val Asp Gly Phe Glu Ala Glu Gly Lys Lys Asp Lys
195 200 205

Lys Asp Tyr Asp Asn Phe
210

<210> 445

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals stop translation

<400> 445

Leu Leu Ser Ile Leu Leu Cys Leu Leu Ala Ser Gly Leu Val Val Phe
1 5 10 15

Phe Leu Phe Pro His Ser Val Leu Val Asp Asp Asp Gly Ile Lys Val
20 25 30

Val Lys Val Thr Phe Asn Lys Gln Asp Ser Leu Val Ile Leu Thr Ile
35 40 45

Met Ala Thr Leu Lys Ile Arg Asn Ser Asn Phe Tyr Thr Val Ala Val
50 55 60

Thr Ser Leu Ser Ser Gln Ile Gln Tyr Met Asn Thr Val Val Asn Phe
65 70 75 80

Thr Gly Lys Ala Glu Met Gly Gly Pro Phe Ser Tyr Val Tyr Phe Phe
85 90 95

Cys Thr Val Pro Glu Ile Leu Val His Asn Ile Val Ile Phe Met Arg
100 105 110

Thr Ser Val Lys Ile Ser Tyr Ile Gly Leu Met Thr Gln Ser Ser Leu
115 120 125

Glu Thr His His Tyr Val Asp Cys Gly Gly Asn Ser Thr Ala Ile Xaa
130 135 140

10004860 120701

<210> 446
 <211> 37
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals stop translation

<400> 446
 Met Phe Phe Phe Leu Tyr Val Tyr Ser Val Leu Cys Gly Leu Leu Val
 1 5 10 15

Tyr Pro Ser Leu Pro Ser His Ser Val Ser Leu Val Thr Ser Leu Val
 20 25 30

Ala Ser Ala Leu Xaa
 35

<210> 447
 <211> 37
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals stop translation

<400> 447
 Met Ala Ser Ile Asn Ala Val Tyr Ile His Val Phe Leu Gly Val Cys
 1 5 10 15

Val Gln Ala Thr Ala Ala Cys Pro Trp Cys Ser Gln Cys Arg Xaa Gly
 20 25 30

Ser Val Pro Ser Xaa
 35

<210> 448
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

10004360-120701

<220>
 <221> SITE
 <222> (192)
 <223> Xaa equals stop translation

<400> 448

Met Met Ala Ala Met Val Leu Thr Ser Leu Ser Cys Ser Pro Val Val
 1 5 10 15
 Gln Ser Pro Pro Gly Thr Glu Ala Asn Phe Ser Ala Ser Arg Ala Ala
 20 25 30
 Cys Asp Pro Trp Lys Glu Ser Gly Asp Ile Ser Asp Ser Gly Xaa Ser
 35 40 45
 Thr Thr Ser Gly His Trp Ser Gly Ser Ser Gly Val Ser Thr Pro Ser
 50 55 60
 Pro Pro His Pro Gln Ala Ser Pro Lys Tyr Leu Gly Asp Ala Phe Gly
 65 70 75 80
 Ser Pro Gln Thr Asp His Gly Phe Glu Thr Asp Pro Asp Pro Phe Leu
 85 90 95
 Leu Asp Glu Pro Ala Pro Arg Lys Arg Lys Asn Ser Val Lys Val Met
 100 105 110
 Tyr Lys Cys Leu Trp Pro Asn Cys Gly Lys Val Leu Arg Ser Ile Val
 115 120 125
 Gly Ile Lys Arg His Val Lys Ala Leu His Leu Gly Asp Thr Val Asp
 130 135 140
 Ser Asp Gln Phe Lys Arg Glu Glu Asp Phe Tyr Tyr Thr Glu Val Gln
 145 150 155 160
 Leu Lys Glu Glu Ser Ala Ala Ala Ala Ala Ala Ala Ala Asp Pro
 165 170 175
 Gln Ser Leu Gly Leu Pro Pro Pro Ser Gln Leu Pro Pro Pro Ala Xaa
 180 185 190

<210> 449
 <211> 31
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals stop translation

<400> 449

Met Ser Thr Asn Tyr Leu Thr Asp Val Cys Ser Leu Phe Ser Tyr Leu

10004350.120701

Asn Tyr Leu Tyr Phe His His His Leu Pro Val Pro Asn Thr Xaa
20 25 30

<210> 451
 <211> 37
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals stop translation

<400> 451
 Met Ala Arg Tyr Phe Ile Phe Phe Ile Leu Val Phe Met Lys Val Ser
 1 5 10 15
 Leu Asn Thr Thr Trp Pro Ala Pro Arg Pro Ala Thr Leu Arg Thr Ala
 20 25 30
 Asn Lys Ser Lys Xaa
 35

<210> 452
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals stop translation

<400> 452
 Phe Ser Thr Ile Arg Ser Gly Leu Thr Asp Arg Ser Val Asn Phe Leu
 1 5 10 15
 Phe Leu Phe Leu Asp Val Pro Asp Cys Arg Leu Val Asn Ile Glu Leu
 20 25 30
 Met Ala Asn Ser Thr Val Thr His Ala Xaa
 35 40

<210> 453
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 453
 Met Ser Glu Trp Glu Leu Ser Ser Lys Phe Ser Gln Thr Gln Arg Gln
 1 5 10 15
 His Cys Leu Leu Leu Asn Asp Tyr Ser Phe Leu Pro Val Phe Trp Tyr
 20 25 30
 Phe Leu Gly Ile Leu Leu Thr Thr Ala Ile Thr Leu Phe Tyr Phe His
 35 40 45

10004850-120701

<210> 454
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals stop translation

<400> 454
 Met Pro Trp Arg Arg Ala Gly Leu Met Met Leu Pro Ile Ile Thr Gly
 1 5 10 15
 Cys Cys Pro Cys Ser Ala Ser Ile Xaa
 20 25

<210> 455
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 455
 Met Tyr Leu Cys Lys Thr Val Lys Val Leu Ile Cys Tyr Asp Trp Ile
 1 5 10 15
 Leu Gly Leu Val Ser Ser Gly Gln His Trp Val Val Ser Leu Ser Tyr
 20 25 30
 Ser Ile Arg Val Tyr Pro Ala Met His Phe Thr Leu Cys Val His Ile
 35 40 45
 Tyr Ser Lys Glu Pro Cys
 50

<210> 456
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals stop translation

<400> 456
 Met Thr Ala Leu Val Trp Arg Lys Gly Pro Asp Gly Gly Ser Arg Lys
 1 5 10 15
 Pro Ile Leu Leu Phe Phe Phe Leu Pro Leu Ile Leu Cys Phe His
 20 25 30

1004150 "100701

Ser Phe Ile His Ser Ser Asn Ile Cys Xaa
 35 40

<210> 457
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals stop translation

<400> 457
 Met Phe Leu Thr Thr Trp Phe Leu Leu Leu Ser Val Ala Trp Xaa Ala
 1 5 10 15
 Leu Thr Arg Ser Gly Arg Ser Cys Leu Pro Leu Val Gly Arg Pro Arg
 20 25 30
 Glu Gln Ser Pro Arg Thr His Cys Ala Ala Ser Ser Thr Lys Glu Arg
 35 40 45
 Asn Ser Asp Pro Gln Pro Ser Pro Pro Glu Val Val Gly Pro Leu Trp
 50 55 60
 Ser Xaa
 65

<210> 458
 <211> 156
 <212> PRT
 <213> Homo sapiens

<400> 458
 Met Lys Ala Ile Gly Ile Glu Pro Ser Leu Ala Thr Tyr His His Ile
 1 5 10 15
 Ile Arg Leu Phe Asp Gln Pro Gly Asp Pro Leu Lys Arg Ser Ser Phe
 20 25 30
 Ile Ile Tyr Asp Ile Met Asn Glu Leu Met Gly Lys Arg Phe Ser Pro
 35 40 45
 Lys Asp Pro Asp Asp Asp Lys Phe Phe Gln Ser Ala Met Ser Ile Cys
 50 55 60
 Ser Ser Leu Arg Asp Leu Glu Leu Ala Tyr Gln Val His Gly Leu Leu
 65 70 75 80
 Lys Thr Gly Asp Asn Trp Lys Phe Ile Gly Pro Asp Gln His Arg Asn

10004660-120001

85

90

95

Phe Tyr Tyr Ser Lys Phe Phe Asp Leu Ile Cys Leu Met Glu Gln Ile
100 105 110

Asp Val Thr Leu Lys Trp Tyr Glu Asp Leu Ile Pro Ser Ala Tyr Phe
115 120 125

Pro His Ser Gln Thr Met Ile His Leu Leu Gln Ala Leu Asp Val Ala
130 135 140

Asn Arg Leu Glu Val Ile Pro Lys Ile Trp Glu Arg
145 150 155

<210> 459

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals stop translation

<400> 459

Met Asn Asp Asn Ser Pro Asn His Ser Ser Ser Tyr Leu Pro Leu Pro
1 5 10 15

Leu Thr Ile Val Ile Leu Gln Thr Gly His Lys Gly Thr Leu Xaa
20 25 30

<210> 460

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals stop translation

<400> 460

Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu
1 5 10 15

Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys
20 25 30

Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys
35 40 45

Gly Asp Leu Leu Lys Cys Pro Leu Xaa
50 55

<210> 461

10004350-120701

<211> 416
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (338)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (416)
 <223> Xaa equals stop translation

<400> 461
 Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
 1 5 10 15
 Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
 20 25 30
 Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
 35 40 45
 Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
 50 55 60
 Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
 65 70 75 80
 Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
 85 90 95
 Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
 100 105 110
 Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
 115 120 125
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu
 130 135 140
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
 145 150 155 160
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
 165 170 175
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
 180 185 190
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met
 195 200 205
 Leu Thr His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu
 210 215 220
 Leu Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met

10004360-12001

225 230 235 240
 Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly Phe
 245 250 255
 Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro Asn
 260 265 270
 Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro Lys
 275 280 285
 Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly Met
 290 295 300
 Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala Arg
 305 310 315 320
 Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp Ser
 325 330 335
 Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly Arg
 340 345 350
 His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu Glu
 355 360 365
 Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Ala Arg
 370 375 380
 Ala Trp Thr Thr Ser Thr Thr Cys Ser Arg Trp Ala Leu Arg Pro Pro
 385 390 395 400
 Arg Trp Thr Cys Ser Phe Leu Ser His Gly Val Ser Glu Gln Val Xaa
 405 410 415

<210> 462

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 462

Met Ala Pro Gly Pro Leu Ser Ala Thr Gln Ala Val Val Ile His Thr
 1 5 10 15

Thr His Cys Leu Gln Leu Pro Val Trp Cys Leu Ser Leu Val Ser Glu
 20 25 30

Leu Leu Gly Arg Ala Pro Pro His Asn Lys Asp Ala Leu Arg Pro Ser
 35 40 45

10004560-120701

Lys Lys Lys Lys Lys Lys Leu Xaa Gly Gly Pro Val Pro Ile Pro Pro
 50 55 60

<210> 463

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids.

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals stop translation

<400> 463

Met Leu Gly Ala Lys Pro His Trp Leu Pro Gly Pro Leu His Ser Pro
 1 5 10 15

Gly Leu Pro Leu Val Leu Val Leu Leu Ala Leu Gly Ala Gly Trp Ala
 20 25 30

Gln Glu Gly Ser Glu Pro Val Leu Leu Glu Gly Glu Cys Leu Val Val
 35 40 45

Cys Glu Pro Gly Arg Ala Ala Ala Gly Gly Pro Gly Gly Ala Ala Leu
 50 55 60

Gly Glu Ala Pro Pro Gly Arg Val Ala Phe Ala Ala Val Arg Ser Xaa
 65 70 75 80

His His Glu Pro Ala Gly Glu Thr Gly Asn Gly Thr Xaa Gly Ala Ile
 85 90 95

Tyr Phe Asp Gln Val Leu Val Asn Glu Gly Gly Gly Phe Asp Arg Ala
 100 105 110

Ser Gly Ser Phe Val Ala Pro Val Arg Gly Val Tyr Ser Phe Arg Phe
 115 120 125

His Val Val Lys Val Tyr Asn Arg Gln Thr Val Gln Val Ser Leu Met
 130 135 140

Leu Asn Thr Trp Pro Val Ile Ser Ala Phe Ala Asn Asp Pro Asp Val
 145 150 155 160

100048660-120701

Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu Pro Leu Asp Pro Gly
165 170 175

Asp Arg Val Ser Leu Arg Leu Arg Arg Gly Asn Leu Leu Gly Gly Trp
180 185 190

Lys Tyr Ser Ser Phe Ser Gly Phe Leu Ile Phe Pro Leu Xaa
195 200 205

<210> 464

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals stop translation

<400> 464

Met Gln Arg Lys Val Ser Asp Phe Ile Ile His Gln Arg Leu Thr Val
1 5 10 15

Asn Leu Cys Val Ile Ser Phe Phe Phe Phe Leu Pro Ile Cys Ile Phe
20 25 30

Ser Leu Ala Lys Lys Xaa
35

<210> 465

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (136)

<223> Xaa equals stop translation

<400> 465

Val Val Gly Thr Gly Thr Ser Leu Ala Leu Ser Ser Leu Leu Ser Leu
1 5 10 15

Leu Leu Phe Ala Gly Met Gln Met Tyr Ser Arg Gln Leu Ala Ser Thr
20 25 30

Glu Trp Leu Thr Ile Gln Gly Gly Leu Leu Gly Ser Gly Leu Phe Val
35 40 45

Phe Ser Leu Thr Ala Phe Asn Asn Leu Glu Asn Leu Val Phe Gly Lys
50 55 60

Gly Phe Gln Ala Lys Ile Phe Pro Glu Ile Leu Leu Cys Leu Leu Leu
65 70 75 80

10004860-120701

Ala Leu Phe Ala Ser Gly Leu Ile His Arg Val Cys Val Thr Thr Cys
 85 90 95

Phe Ile Phe Ser Met Val Gly Leu Tyr Tyr Ile Asn Lys Ile Ser Ser
 100 105 110

Thr Leu Tyr Gln Ala Ala Ala Pro Val Leu Thr Pro Ala Lys Val Thr
 115 120 125

Gly Lys Ser Lys Lys Arg Asn Xaa
 130 135

<210> 466

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals stop translation

<400> 466

Met Cys Leu Ser Arg Trp Lys Ile Phe Tyr Thr Leu Leu Ile Leu Phe
 1 5 10 15

Xaa Xaa Phe Ser Ile Thr Ser Glu Xaa Glu Thr Phe Tyr Met Ile Ile
 20 25 30

Ile His His Asn Pro Thr Gln Ile Thr Ala Ser Cys Ser Phe Thr Phe
 35 40 45

Leu Xaa
 50

<210> 467

<211> 71

<212> PRT

<213> Homo sapiens

<220>

10004560.120701

<221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals stop translation

<400> 467
 Met Trp Gly Cys Ser Gly Leu Gly His Arg Thr Val Ser Phe Leu Leu
 1 5 10 15
 Leu Leu Pro Cys Ser Phe Pro Arg Pro Cys Xaa Leu Phe Gly Leu Ile
 20 25 30
 Pro Ile Ser Arg Pro Cys Lys Val Glu Ala Pro Arg Leu Ser Val Pro
 35 40 45
 Xaa Leu Ser Cys Ala Ser His Pro Tyr Cys Asn Cys Pro Met Ser Thr
 50 55 60
 Ser Cys Pro Leu Pro Arg Xaa
 65 70

<210> 468
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals stop translation

<400> 468
 Asp Phe Val Pro Val Leu Val Phe Val Leu Ile Lys Ala Asn Pro Pro
 1 5 10 15
 Cys Leu Leu Ser Thr Val Gln Tyr Ile Ser Ser Phe Tyr Ala Ser Cys
 20 25 30
 Leu Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln Phe Thr Ala Ala Val
 35 40 45
 Glu Phe Ile Lys Thr Ile Asp Asp Arg Lys Xaa
 50 55

<210> 469
 <211> 59
 <212> PRT

10004360-120701

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 469

Met	Phe	Ser	Arg	Thr	Ser	Asn	Phe	Trp	Thr	Phe	Phe	Phe	Gln	Phe	Leu
1					5				10					15	

Ile	Phe	Lys	Val	Phe	Leu	Val	Leu	Lys	Asn	Xaa	Phe	Thr	Ser	Gln	Lys
			20					25					30		

Ile	Xaa	Xaa	Ile	Xaa	Xaa	Glu	Lys	Pro	Lys	Lys	Lys	Lys	Xaa	Arg	Gly
			35				40						45		

Gly	Arg	Ala	Pro	Ser	Pro	Gln	Gly	Gly	Pro	Xaa
			50			55				

<210> 470

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

10004860 120701

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals stop translation

<400> 470

Met Ser Ser Leu Leu Ser Ala Gly Leu Gln Ala Ser Leu Cys Gly Lys
1 5 10 15

Xaa Leu Trp Ala Ser Thr Trp Tyr Leu Val Cys Cys Leu Leu Pro Phe
20 25 30

Phe His Gln Gly Cys Cys Asp His Lys Ser Lys Gln Gln Tyr Ile Pro
35 40 45

Asn Leu Lys Ser Tyr Cys Gly Leu Ser Thr Ile Glu Ile Xaa
50 55 60

<210> 471

<211> 316

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (302)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (305)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (316)

<223> Xaa equals stop translation

<400> 471

Met Ser Thr Lys Lys Leu Cys Ile Val Gly Gly Ile Leu Leu Val Phe
1 5 10 15

Gln Ile Ile Ala Phe Leu Val Gly Gly Ile Ala Pro Gly Pro Thr
20 25 30

Thr Ala Val Ser Tyr Met Ser Val Lys Cys Val Asp Ala Arg Lys Asn
35 40 45

His His Lys Thr Lys Trp Phe Val Pro Trp Gly Pro Asn His Cys Asp

10004550.120701

50	55	60
Lys Ile Arg Asp Ile Glu Glu Ala Ile Pro Arg Glu Ile Glu Ala Asn 65 70 75 80		
Asp Ile Val Phe Ser Val His Ile Pro Leu Pro His Met Glu Met Ser 85 90 95		
Pro Trp Phe Gln Phe Met Xaa Phe Ile Leu Gln Leu Asp Ile Ala Phe 100 105 110		
Lys Leu Asn Asn Gln Ile Arg Glu Asn Ala Glu Val Ser Met Asp Val 115 120 125		
Ser Leu Ala Tyr Arg Asp Asp Ala Phe Ala Glu Trp Thr Glu Met Ala 130 135 140		
His Glu Arg Val Pro Arg Lys Leu Lys Cys Thr Phe Thr Ser Pro Lys 145 150 155 160		
Thr Pro Glu His Gly Gly Pro Val Thr Met Asn Val Met Ser Phe Leu 165 170 175		
Ser Trp Lys Leu Gly Leu Trp Pro Met Lys Phe Tyr Leu Leu Asn Ile 180 185 190		
Arg Leu Pro Val Asn Glu Lys Lys Lys Ile Asn Val Gly Ile Gly Glu 195 200 205		
Ile Lys Asp Ile Arg Leu Val Gly Ile His Gln Asn Gly Gly Phe Thr 210 215 220		
Lys Val Trp Phe Ala Met Lys Thr Phe Leu Thr Pro Ser Ile Phe Ile 225 230 235 240		
Ile Met Val Trp Tyr Trp Arg Arg Ile Thr Met Met Ser Arg Pro Pro 245 250 255		
Val Leu Leu Glu Lys Val Ile Phe Ala Leu Gly Ile Ser Met Thr Phe 260 265 270		
Ile Asn Ile Pro Val Glu Trp Phe Ser Ile Gly Phe Asp Trp Thr Trp 275 280 285		
Met Leu Leu Phe Gly Asp Ile Arg Gln Ala Ser Ser Met Xaa Cys Phe 290 295 300		
Xaa Pro Ser Gly Ser Ser Ser Val Ala Ser Thr Xaa 305 310 315		

<210> 472

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

10004860-120701

<222> (24)

<223> Xaa equals stop translation

<400> 472

Met Leu Ala Leu Leu Gly Leu Leu Ala Gly Thr Glu His Pro Pro Gly
1 5 10 15

Pro Gln Gly Pro Gly Pro Ser Xaa
20

<210> 473

<211> 10

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals stop translation

<400> 473

Met Pro Ser Gly Ala Cys Cys Ser Pro Xaa
1 5 10

<210> 474

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals stop translation

<400> 474

Tyr Val Met Ile Phe Lys Lys Glu Phe Ala Pro Ser Asp Glu Glu Leu
1 5 10 15

Asp Ser Tyr Arg Arg Gly Glu Glu Trp Asp Pro Gln Lys Ala Glu Glu
20 25 30

Lys Arg Asn Xaa Lys Glu Leu Ala Gln Arg Gln Xaa Gly Gly Gly Ser
35 40 45

Pro Ala Gly Ala Cys Gly Gly Glu Pro Cys Gln Arg Leu Gln Gly Gln
50 55 60

10004860-120701

Val Gln Pro Pro His Arg Gln Gly Ser Ser Gln Arg Arg Ser Pro His
65 70 75 80

Ala Thr Gly Gln Xaa
85

<210> 475

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 475

Met Leu Pro Ala Leu Ser Thr Val Leu Leu Pro Thr Pro Ser Leu Cys
1 5 10 15

Ser Gly Asn Pro Arg Glu Gly Trp Ala Xaa
20 25

<210> 476

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals stop translation

<400> 476

Lys Glu Phe Phe Val Phe Leu Phe Val Cys Leu Phe Trp Leu Leu Ser
1 5 10 15

Asn Thr Pro Leu Thr Phe Ile Ser Ile Ile Leu Gln Arg Lys Glu Thr
20 25 30

Asn Xaa

<210> 477

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

10004350-126701

<221> SITE
 <222> (172)
 <223> Xaa equals stop translation

<400> 477

Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val Ile Cys Tyr
 1 5 10 15
 Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu Pro Trp Ala
 20 25 30
 Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val Tyr Ser Gly
 35 40 45
 Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met Gly Leu Thr
 50 55 60
 Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser Thr Phe Pro
 65 70 75 80
 Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile Leu Val Phe
 85 90 95
 Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp Lys Arg Pro
 100 105 110
 Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly Thr Glu Gln
 115 120 125
 Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn Met Asp Lys
 130 135 140
 Ser Asp Ser Glu Leu Asn Xaa Glu Val Ala Ala Arg Lys Arg Asn Leu
 145 150 155 160
 Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met Xaa
 165 170

<210> 478

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

10004860-120701

<400> 478

Met Cys Ile His Val Phe Met Xaa Val Leu Trp Val Leu Phe Leu Leu
 1 5 10 15

Asn Pro Leu Cys Thr Gly Leu Trp Pro Leu Xaa Asn Cys Phe Ser Val
 20 25 30

Leu Arg His Ala Asp Trp Val Leu Gly Ala Asp Tyr Lys Gly Glu Glu
 35 40 45

Leu Asn Arg His Gln Gly Pro Met Lys Pro Lys Asp Xaa
 50 55 60

<210> 479

<211> 3

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals stop translation

<400> 479

Gly Arg Xaa
 1

<210> 480

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals stop translation

<400> 480

Met Phe His Val Leu Met Ala Gln Val Thr Xaa Val Ile Ile Thr Thr
 1 5 10 15

1000480-120701

Val Ser Val Leu Val Phe Asp Phe Arg Pro Ser Leu Glu Phe Phe Leu
 20 25 30
 Glu Ala Xaa Ser Val Xaa Leu Ser Ile Phe Ile Tyr Asn Ala Ser Lys
 35 40 45
 Pro Gln Val Pro Glu Tyr Ala Pro Arg Gln Glu Arg Ile Arg Asp Leu
 50 55 60
 Ser Gly Asn Leu Trp Glu Arg Ser Ser Gly Asp Gly Glu Glu Leu Glu
 65 70 75 80
 Arg Leu Thr Lys Pro Lys Ser Asp Glu Ser Asp Glu Asp Thr Phe Xaa
 85 90 95

<210> 481
 <211> 171
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (159)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (171)
 <223> Xaa equals stop translation

<400> 481
 Met Arg Gly Pro Ala Gln Ala Lys Leu Leu Pro Gly Ser Ala Ile Gln
 1 5 10 15
 Ala Leu Val Gly Leu Ala Arg Pro Leu Val Leu Ala Leu Leu Leu Val
 20 25 30
 Ser Ala Ala Leu Ser Ser Val Val Ser Arg Thr Asp Ser Pro Ser Pro
 35 40 45
 Thr Val Leu Asn Ser His Ile Ser Thr Pro Asn Val Asn Ala Leu Thr
 50 55 60
 His Glu Asn Gln Thr Lys Pro Ser Ile Ser Gln Ile Ser Thr Thr Leu
 65 70 75 80
 Pro Pro Thr Thr Ser Thr Lys Lys Ser Gly Gly Ala Ser Val Val Pro
 85 90 95
 His Pro Ser Pro Thr Pro Leu Ser Gln Glu Glu Ala Asp Asn Asn Glu
 100 105 110
 Asp Pro Ser Ile Glu Glu Glu Asp Leu Leu Met Leu Asn Ser Ser Pro

1004860-120701

115

120

125

Ser Thr Ala Lys Asp Thr Leu Asp Asn Gly Asp Tyr Gly Glu Pro Asp
130 135 140

Tyr Asp Trp Thr Thr Gly Pro Arg Asp Asp Asp Glu Ser Asp Xaa His
145 150 155 160

Leu Gly Arg Lys Gln Gly Leu His Gly Asn Xaa
165 170

<210> 482

<211> 623

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (575)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 482

Met Phe Met Arg Ile Ala Lys Ala Tyr Ala Ala Leu Thr Asp Glu Glu
1 5 10 15

Ser Arg Lys Asn Trp Glu Glu Phe Gly Asn Pro Asp Gly Pro Gln Ala
20 25 30

Thr Ser Phe Gly Ile Ala Leu Pro Ala Trp Ile Val Asp Gln Lys Asn
35 40 45

Ser Ile Leu Val Leu Leu Val Tyr Gly Leu Ala Phe Met Val Ile Leu
50 55 60

Pro Val Val Val Gly Ser Trp Trp Tyr Arg Ser Ile Arg Tyr Ser Gly
65 70 75 80

Asp Gln Ile Leu Ile Arg Thr Thr Gln Ile Tyr Thr Tyr Phe Val Tyr
85 90 95

Lys Thr Arg Asn Met Asp Met Lys Arg Leu Ile Met Val Leu Xaa Gly
100 105 110

Ala Ser Glu Phe Asp Pro Gln Tyr Asn Lys Asp Ala Thr Ser Arg Pro
115 120 125

Thr Asp Asn Ile Leu Ile Pro Gln Leu Ile Arg Glu Ile Gly Ser Ile
130 135 140

Asn Leu Lys Lys Asn Glu Pro Pro Leu Thr Cys Pro Tyr Ser Leu Lys
145 150 155 160

10004860 "120701

Ala Arg Val Leu Leu Leu Ser His Leu Ala Arg Met Lys Ile Pro Glu
 165 170 175
 Thr Leu Glu Glu Asp Gln Gln Phe Met Leu Lys Lys Cys Pro Ala Leu
 180 185 190
 Leu Gln Glu Met Val Asn Val Ile Cys Gln Leu Ile Val Met Ala Arg
 195 200 205
 Asn Arg Glu Glu Arg Glu Phe Arg Ala Pro Thr Leu Ala Ser Leu Glu
 210 215 220
 Asn Cys Met Lys Leu Ser Gln Met Ala Val Gln Gly Leu Gln Gln Phe
 225 230 235 240
 Lys Ser Pro Leu Leu Gln Leu Pro His Ile Glu Glu Asp Asn Leu Arg
 245 250 255
 Arg Val Ser Asn His Lys Lys Tyr Lys Ile Lys Thr Ile Gln Asp Leu
 260 265 270
 Val Ser Leu Lys Glu Ser Asp Arg His Thr Leu Leu His Phe Leu Glu
 275 280 285
 Asp Glu Lys Tyr Glu Glu Val Met Ala Val Leu Gly Ser Phe Pro Tyr
 290 295 300
 Val Thr Met Asp Ile Lys Ser Gln Val Leu Asp Asp Glu Asp Ser Asn
 305 310 315 320
 Asn Ile Thr Val Gly Ser Leu Val Thr Val Leu Val Lys Leu Thr Arg
 325 330 335
 Gln Thr Met Ala Glu Val Phe Glu Lys Glu Gln Ser Ile Cys Ala Ala
 340 345 350
 Glu Glu Gln Pro Ala Glu Asp Gly Gln Gly Glu Thr Asn Lys Asn Arg
 355 360 365
 Thr Lys Gly Gly Trp Gln Gln Lys Ser Lys Gly Pro Lys Lys Thr Ala
 370 375 380
 Lys Ser Lys Lys Lys Lys Pro Leu Lys Lys Lys Pro Thr Pro Val Leu
 385 390 395 400
 Leu Pro Gln Ser Lys Gln Gln Lys Gln Lys Gln Ala Asn Gly Val Val
 405 410 415
 Gly Asn Glu Ala Ala Val Lys Glu Asp Glu Glu Glu Val Ser Asp Lys
 420 425 430
 Gly Ser Asp Ser Glu Glu Glu Glu Thr Asn Arg Asp Ser Gln Ser Glu
 435 440 445
 Lys Asp Asp Gly Ser Asp Arg Asp Ser Asp Arg Glu Gln Asp Glu Lys
 450 455 460
 Gln Asn Lys Asp Asp Glu Ala Glu Trp Gln Glu Leu Gln Gln Ser Ile

10004860-120701

465 470 475 480
 Gln Arg Lys Glu Arg Ala Leu Leu Glu Thr Lys Ser Lys Ile Thr His
 485 490 495
 Pro Val Tyr Ser Leu Tyr Phe Pro Glu Glu Lys Gln Glu Trp Trp Trp
 500 505 510
 Leu Tyr Ile Ala Asp Arg Lys Glu Gln Thr Leu Ile Ser Met Pro Tyr
 515 520 525
 His Val Cys Thr Leu Lys Asp Thr Glu Glu Val Glu Leu Lys Phe Pro
 530 535 540
 Ala Pro Gly Lys Pro Gly Asn Tyr Gln Tyr Thr Val Phe Leu Arg Ser
 545 550 555 560
 Asp Ser Tyr Met Gly Leu Asp Gln Ile Lys Pro Leu Glu Val Xaa Lys
 565 570 575
 Phe Met Arg Leu Lys Pro Val Pro Glu Asn His Pro Gln Trp Asp Thr
 580 585 590
 Ala Ile Glu Gly Asp Glu Asp Gln Glu Asp Ser Glu Gly Phe Glu Asp
 595 600 605
 Ser Phe Glu Gly Gly Arg Gly Arg Glu Glu Gly Arg Trp Trp Thr
 610 615 620

<210> 483

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals stop translation

<400> 483

Met Lys Ala Ser Gln Cys Cys Cys Cys Leu Ser His Leu Leu Ala Ser
 1 5 10 15

10004360-120701

Val Leu Leu Leu Leu Leu Leu Pro Glu Leu Ser Gly Xaa Leu Xaa Val
 20 25 30

Leu Leu Gln Ala Ala Glu Ala Ala Pro Gly Xaa Gly Pro Pro Asp Pro
 35 40 45

Arg Pro Gly His Tyr Arg Arg Cys His Arg Ala Leu Thr Pro Ala Gln
 50 55 60

Gln Pro Gly Arg Gly Leu Ala Glu Ala Ala Gly Ala Ala Gly Leu Arg
 65 70 75 80

Gly Arg Gln Trp Gln Gln Pro Cys Gly Arg Ala Xaa
 85 90

<210> 484

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals stop translation

<400> 484

Met Phe Lys Cys Leu Gln Thr Thr Phe Leu Phe Ile Xaa Xaa
 1 5 10

<210> 485

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals stop translation

<400> 485

Ile Leu Leu Cys Ser Trp Pro Thr Gly Leu Val Gly Gly Arg Asp Pro
 1 5 10 15

Gly Ser Ser Arg Gly Ser Ser Ala Ser Leu Thr Pro Ser Pro Gly Arg
 20 25 30

Gln Pro Cys Ser Arg Arg Arg Gly Tyr Ser Val Gly Arg Arg Ser Ser
 35 40 45

Pro Pro Asp Gly Ser Xaa

10004850-120701

50

<210> 486
 <211> 22
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals stop translation

<400> 486
 Met Ala Phe Val Leu Leu Xaa Cys Phe Val Xaa Leu Gln Ser Ser Xaa
 1 5 10 15

Gly Arg Ala Val Gln Xaa
 20

<210> 487
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 487
 Glu Asn Met Ile Cys Val Lys Cys Leu Pro Gln Tyr Pro Glu His Ser
 1 5 10 15

Lys His Val

<210> 488
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 488
 Ala Arg Val Ala Phe His Leu Ile Cys Arg Tyr Ile Leu Pro Thr Val
 1 5 10 15

10004360 120701

Tyr Cys His Val
20

<210> 489
<211> 20
<212> PRT
<213> Homo sapiens

<400> 489
Glu Leu Val Glu Ser Pro Gly Ala Ala Gly Asn Ser Ala Arg Ser Gly
1 5 10 15

Asn Val Val Cys
20

<210> 490
<211> 25
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 490
Phe Lys Lys Leu Val Asn Pro Arg Xaa Gln Gly Ile Arg His Glu Glu
1 5 10 15

Glu Ala Val Ser Trp Gln Glu Arg Arg
20 25

<210> 491
<211> 206
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 491
Ile Ser Val Leu Xaa Tyr Pro His Cys Val Val His Glu Leu Pro Glu
1 5 10 15

Leu Thr Ala Glu Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp
20 25 30

Arg Asn Leu Phe Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu
35 40 45

Thr Lys Trp Lys His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser
50 55 60

1000489-12001

Ala Pro Ile Leu Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln
65 70 75 80

Leu Tyr Val Leu Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg
85 90 95

Gln Trp Arg Lys Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys
100 105 110

Val Arg His Arg Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp
115 120 125

Ala Arg Pro Trp Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn
130 135 140

Ile Glu Arg Phe Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro
145 150 155 160

Asp Phe Leu Pro Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg
165 170 175

Val Asp Leu Pro Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu
180 185 190

Arg Glu Val Phe Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu
195 200 205

<210> 492

<211> 507

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 492

Met Arg Ala Ala Ser Pro Pro Ala Ser Ala Ser Asp Leu Ile Glu Gln
1 5 10 15

Gln Gln Lys Arg Gly Arg Arg Glu His Lys Ala Leu Ile Lys Gln Asp
20 25 30

Asn Leu Asp Ala Phe Asn Glu Arg Asp Pro Tyr Lys Ala Asp Asp Ser
35 40 45

Arg Glu Glu Glu Glu Glu Asn Asp Asp Asp Asn Ser Leu Glu Gly Glu
50 55 60

Thr Phe Pro Leu Glu Arg Asp Glu Val Met Pro Pro Pro Leu Gln His
65 70 75 80

10004350-120701

Pro Gln Thr Asp Arg Leu Xaa Cys Pro Lys Gly Leu Pro Trp Xaa Pro
 85 90 95
 Lys Val Arg Glu Lys Asp Ile Glu Met Phe Leu Glu Ser Ser Arg Ser
 100 105 110
 Lys Phe Ile Gly Tyr Thr Leu Gly Ser Asp Thr Asn Thr Val Val Gly
 115 120 125
 Leu Pro Arg Pro Ile His Glu Ser Ile Lys Thr Leu Lys Gln His Lys
 130 135 140
 Tyr Thr Ser Ile Ala Glu Val Gln Ala Gln Met Glu Glu Glu Tyr Leu
 145 150 155 160
 Arg Ser Pro Leu Ser Gly Gly Glu Glu Glu Val Glu Gln Val Pro Ala
 165 170 175
 Glu Thr Leu Tyr Gln Gly Leu Leu Pro Ser Leu Pro Gln Tyr Met Ile
 180 185 190
 Ala Leu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys Ala Lys
 195 200 205
 Thr Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu Met Pro
 210 215 220
 Thr Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn Arg His
 225 230 235 240
 Lys Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu Leu Leu
 245 250 255
 Lys His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met Ala Gln
 260 265 270
 His Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe Phe Asn
 275 280 285
 Gln Asn Ile Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser Val Leu
 290 295 300
 Asp Tyr Pro His Cys Val Val His Glu Leu Pro Glu Leu Thr Ala Glu
 305 310 315 320
 Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn Leu Phe
 325 330 335
 Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu Thr Lys Trp Lys
 340 345 350
 His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser Ala Pro Ile Leu
 355 360 365
 Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln Leu Tyr Val Leu
 370 375 380

10004860-120701

Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg Gln Trp Arg Lys
385 390 395 400

Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys Val Arg His Arg
405 410 415

Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp Ala Arg Pro Trp
420 425 430

Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn Ile Glu Arg Phe
435 440 445

Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro Asp Phe Leu Pro
450 455 460

Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp Leu Pro
465 470 475 480

Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu Arg Glu Val Phe
485 490 495

Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu Gln
500 505

<210> 493

<211> 50

<212> PRT

<213> Homo sapiens

<400> 493

Met Arg Ala Ala Ser Pro Pro Ala Ser Ala Ser Asp Leu Ile Glu Gln
1 5 10 15

Gln Gln Lys Arg Gly Arg Arg Glu His Lys Ala Leu Ile Lys Gln Asp
20 25 30

Asn Leu Asp Ala Phe Asn Glu Arg Asp Pro Tyr Lys Ala Asp Asp Ser
35 40 45

Arg Glu
50

<210> 494

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

10004860 120701

0> 494

Glu Glu Glu Asn Asp Asp Asp Asn Ser Leu Glu Gly Glu Thr Phe
 5 10 15

Leu Glu Arg Asp Glu Val Met Pro Pro Pro Leu Gln His Pro Gln
 20 25 30

Asp Arg Leu Xaa Cys Pro Lys Gly Leu Pro Trp Xaa
 35 40 45

10> 495

11> 51

12> PRT

13> Homo sapiens

00> 495

Lys Val Arg Glu Lys Asp Ile Glu Met Phe Leu Glu Ser Ser Arg
 1 5 10 15

r Lys Phe Ile Gly Tyr Thr Leu Gly Ser Asp Thr Asn Thr Val Val
 20 25 30

y Leu Pro Arg Pro Ile His Glu Ser Ile Lys Thr Leu Lys Gln His
 35 40 45

s Tyr Thr
 50

110> 496

111> 47

112> PRT

113> Homo sapiens

100> 496

er Ile Ala Glu Val Gln Ala Gln Met Glu Glu Glu Tyr Leu Arg Ser
 1 5 10 15

ro Leu Ser Gly Gly Glu Glu Glu Val Glu Gln Val Pro Ala Glu Thr
 20 25 30

eu Tyr Gln Gly Leu Leu Pro Ser Leu Pro Gln Tyr Met Ile Ala
 35 40 45

210> 497

211> 48

212> PRT

213> Homo sapiens

400> 497

Leu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys Ala Lys Thr
 1 5 10 15

Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu Met Pro Thr
 20 25 30

10004860 "120701

Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn Arg His Lys
 35 40 45

<210> 498

<211> 50

<212> PRT

<213> Homo sapiens

<400> 498

Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu Leu Lys
 1 5 10 15

His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met Ala Gln His
 20 25 30

Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe Phe Asn Gln
 35 40 45

Asn Ile
 50

<210> 499

<211> 48

<212> PRT

<213> Homo sapiens

<400> 499

Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser Val Leu Asp Tyr Pro
 1 5 10 15

His Cys Val Val His Glu Leu Pro Glu Leu Thr Ala Glu Ser Leu Glu
 20 25 30

Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn Leu Phe Ser Cys Ile
 35 40 45

<210> 500

<211> 47

<212> PRT

<213> Homo sapiens

<400> 500

Asn Leu Leu Arg Ile Leu Asn Lys Leu Thr Lys Trp Lys His Ser Arg
 1 5 10 15

Thr Met Met Leu Val Val Phe Lys Ser Ala Pro Ile Leu Lys Arg Ala
 20 25 30

10004860-120701

Leu Lys Val Lys Gln Ala Met Met Gln Leu Tyr Val Leu Lys Leu
 35 40 45

<210> 501
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 501
 Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg Gln Trp Arg Lys Ser Asn
 1 5 10 15

Met Lys Thr Met Ser Ala Ile Tyr Gln Lys Val Arg His Arg Leu Asn
 20 25 30

Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp Ala Arg Pro
 35 40 45

<210> 502
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 502
 Trp Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn Ile Glu Arg
 1 5 10 15

Phe Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro Asp Phe Leu
 20 25 30

Pro Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp Leu
 35 40 45

<210> 503
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 503
 Pro Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu Arg Glu Val
 1 5 10 15

Phe Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu Gln
 20 25

<210> 504
 <211> 317
 <212> PRT
 <213> Homo sapiens

<220>

10004860.120701

<221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 504

Met Ala Pro Pro Ala Pro Gly Pro Ala Ser Gly Gly Ser Gly Glu Val
 1 5 10 15

Asp Glu Leu Phe Asp Val Lys Asn Ala Phe Tyr Ile Gly Ser Tyr Gln
 20 25 30

Gln Cys Ile Asn Glu Ala Xaa Xaa Val Lys Leu Ser Ser Pro Glu Arg
 35 40 45

Asp Val Glu Arg Asp Val Phe Leu Tyr Arg Ala Tyr Leu Ala Gln Arg
 50 55 60

Lys Phe Gly Val Val Leu Asp Glu Ile Lys Pro Ser Ser Ala Pro Glu
 65 70 75 80

Leu Gln Ala Val Arg Met Phe Ala Asp Tyr Leu Ala His Glu Ser Arg
 85 90 95

Arg Asp Ser Ile Val Ala Glu Leu Asp Arg Glu Met Ser Arg Ser Xaa
 100 105 110

Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala Ala Ser Ile Tyr Leu
 115 120 125

His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln Gly Asp
 130 135 140

Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile Leu Leu Lys Leu Asp
 145 150 155 160

Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg Met Gln Asp Leu Asp
 165 170 175

Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala Trp Val Ser Leu Ala
 180 185 190

Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr Ile Phe Gln Glu Met
 195 200 205

Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Leu Asn Gly Gln Ala Ala
 210 215 220

Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala Glu Gly Leu Leu Gln

10004360-120701

225					230					235					240
Glu	Ala	Leu	Asp	Lys	Asp	Ser	Gly	Tyr	Pro	Glu	Thr	Leu	Val	Asn	Leu
				245					250					255	
Ile	Val	Leu	Ser	Gln	His	Leu	Gly	Lys	Pro	Pro	Glu	Val	Thr	Asn	Arg
			260					265					270		
Tyr	Leu	Ser	Gln	Leu	Lys	Asp	Ala	His	Arg	Ser	His	Pro	Phe	Ile	Lys
		275					280					285			
Glu	Tyr	Gln	Ala	Lys	Glu	Asn	Asp	Phe	Asp	Arg	Leu	Val	Leu	Gln	Tyr
	290					295					300				
Ala	Pro	Ser	Ala	Glu	Ala	Gly	Pro	Glu	Leu	Ser	Gly	Pro			
305					310						315				
 <210> 505															
<211> 261															
<212> PRT															
<213> Homo sapiens															
 <220>															
<221> SITE															
<222> (65)															
<223> Xaa equals any of the naturally occurring L-amino acids															
 <400> 505															
Arg	Asp	Val	Glu	Arg	Asp	Val	Phe	Leu	Tyr	Arg	Ala	Tyr	Leu	Ala	Gln
1				5					10					15	
Arg	Lys	Phe	Gly	Val	Val	Leu	Asp	Glu	Ile	Lys	Pro	Ser	Ser	Ala	Pro
			20					25					30		
Glu	Leu	Gln	Ala	Val	Arg	Met	Phe	Ala	Asp	Tyr	Leu	Ala	His	Glu	Ser
		35					40					45			
Arg	Arg	Asp	Ser	Ile	Val	Ala	Glu	Leu	Asp	Arg	Glu	Met	Ser	Arg	Ser
	50					55					60				
Xaa	Asp	Val	Thr	Asn	Thr	Thr	Phe	Leu	Leu	Met	Ala	Ala	Ser	Ile	Tyr
65				70						75					80
Leu	His	Asp	Gln	Asn	Pro	Asp	Ala	Ala	Leu	Arg	Ala	Leu	His	Gln	Gly
				85					90					95	
Asp	Ser	Leu	Glu	Cys	Thr	Ala	Met	Thr	Val	Gln	Ile	Leu	Leu	Lys	Leu
			100					105					110		
Asp	Arg	Leu	Asp	Leu	Ala	Arg	Lys	Glu	Leu	Lys	Arg	Met	Gln	Asp	Leu
		115					120					125			
Asp	Glu	Asp	Ala	Thr	Leu	Thr	Gln	Leu	Ala	Thr	Ala	Trp	Val	Ser	Leu
	130					135					140				
Ala	Thr	Gly	Gly	Glu	Lys	Leu	Gln	Asp	Ala	Tyr	Tyr	Ile	Phe	Gln	Glu
145					150					155					160

Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Leu Asn Gly Gln Ala
 165 170 175

Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala Glu Gly Leu Leu
 180 185 190

Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu Thr Leu Val Asn
 195 200 205

Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro Glu Val Thr Asn
 210 215 220

Arg Tyr Leu Ser Gln Leu Lys Asp Ala His Arg Ser His Pro Phe Ile
 225 230 235 240

Lys Glu Tyr Gln Ala Lys Glu Asn Asp Phe Asp Arg Leu Val Leu Gln
 245 250 255

Tyr Ala Pro Ser Ala
 260

<210> 506

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 506

Met Ala Pro Pro Ala Pro Gly Pro Ala Ser Gly Gly Ser Gly Glu Val
 1 5 10 15

Asp Glu Leu Phe Asp Val Lys Asn Ala Phe Tyr Ile Gly Ser Tyr Gln
 20 25 30

Gln Cys Ile Asn Glu Ala Xaa Xaa Val Lys Leu Ser Ser Pro Glu Arg
 35 40 45

<210> 507

<211> 47

<212> PRT

<213> Homo sapiens

<400> 507

10004860 120701

Asp Val Glu Arg Asp Val Phe Leu Tyr Arg Ala Tyr Leu Ala Gln Arg
1 5 10 15

Lys Phe Gly Val Val Leu Asp Glu Ile Lys Pro Ser Ser Ala Pro Glu
20 25 30

Leu Gln Ala Val Arg Met Phe Ala Asp Tyr Leu Ala His Glu Ser
35 40 45

<210> 508

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 508

Arg Arg Asp Ser Ile Val Ala Glu Leu Asp Arg Glu Met Ser Arg Ser
1 5 10 15

Xaa Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala Ala Ser Ile Tyr
20 25 30

Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln Gly
35 40 45

<210> 509

<211> 47

<212> PRT

<213> Homo sapiens

<400> 509

Asp Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile Leu Leu Lys Leu
1 5 10 15

Asp Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg Met Gln Asp Leu
20 25 30

Asp Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala Trp Val Ser
35 40 45

<210> 510

<211> 47

<212> PRT

<213> Homo sapiens

<400> 510

Leu Ala Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr Ile Phe Gln
1 5 10 15

10004360-120701

Glu Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Leu Asn Gly Gln
 20 25 30

Ala Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala Glu Gly
 35 40 45

<210> 511

<211> 48

<212> PRT

<213> Homo sapiens

<400> 511

Leu Leu Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu Thr Leu
 1 5 10 15

Val Asn Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro Glu Val
 20 25 30

Thr Asn Arg Tyr Leu Ser Gln Leu Lys Asp Ala His Arg Ser His Pro
 35 40 45

<210> 512

<211> 32

<212> PRT

<213> Homo sapiens

<400> 512

Phe Ile Lys Glu Tyr Gln Ala Lys Glu Asn Asp Phe Asp Arg Leu Val
 1 5 10 15

Leu Gln Tyr Ala Pro Ser Ala Glu Ala Gly Pro Glu Leu Ser Gly Pro
 20 25 30

<210> 513

<211> 47

<212> PRT

<213> Homo sapiens

<400> 513

Arg Asp Val Glu Arg Asp Val Phe Leu Tyr Arg Ala Tyr Leu Ala Gln
 1 5 10 15

Arg Lys Phe Gly Val Val Leu Asp Glu Ile Lys Pro Ser Ser Ala Pro
 20 25 30

Glu Leu Gln Ala Val Arg Met Phe Ala Asp Tyr Leu Ala His Glu
 35 40 45

10004860-120701

10> 514
 11> 48
 12> PRT
 13> Homo sapiens

20>
 21> SITE
 22> (18)
 23> Xaa equals any of the naturally occurring L-amino acids

100> 514
 er Arg Arg Asp Ser Ile Val Ala Glu Leu Asp Arg Glu Met Ser Arg
 1 5 10 15
 er Xaa Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala Ala Ser Ile
 20 25 30
 yr Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln
 35 40 45

210> 515
 211> 47
 212> PRT
 213> Homo sapiens

400> 515
 ily Asp Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile Leu Leu Lys
 1 5 10 15
 leu Asp Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg Met Gln Asp
 20 25 30
 leu Asp Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala Trp Val
 35 40 45

<210> 516
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 516
 Ser Leu Ala Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr Ile Phe
 1 5 10 15
 Gln Glu Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu Leu Asn Gly
 20 25 30
 Gln Ala Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala Glu
 35 40 45

<210> 517

10004860-120701

<211> 38
 <212> PRT
 <213> Homo sapiens

<400> 517
 Gly Leu Leu Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu Thr
 1 5 10 15
 Leu Val Asn Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro Glu
 20 25 30
 Val Thr Asn Arg Tyr Leu
 35

<210> 518
 <211> 34
 <212> PRT
 <213> Homo sapiens
 <400> 518
 Ser Gln Leu Lys Asp Ala His Arg Ser His Pro Phe Ile Lys Glu Tyr
 1 5 10 15
 Gln Ala Lys Glu Asn Asp Phe Asp Arg Leu Val Leu Gln Tyr Ala Pro
 20 25 30
 Ser Ala

<210> 519
 <211> 62
 <212> PRT
 <213> Homo sapiens
 <400> 519
 Asn Arg Tyr Tyr Arg Glu Ser Trp Ser Leu Gln Val Pro Val Arg Asn
 1 5 10 15
 Ser Gly Ser Thr His Ala Ser Glu Arg Asn Gly Ala Ser Gly Pro Arg
 20 25 30
 Pro Gly Leu Arg Arg Leu Arg Gly Gly Arg Arg Ala Val Arg Arg Lys
 35 40 45
 Glu Arg Leu Leu His Arg Gln Leu Pro Ala Val His Lys Arg
 50 55 60

<210> 520
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)

10004860 120701

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 520

Ala Pro Gly Xaa Gly Trp Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro
1 5 10 15

Pro Arg Ala Ser Leu Ser Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser
20 25 30

Val Lys Tyr Thr Leu Val Val Asp Glu His Ala Gln Leu Glu Leu Val
35 40 45

Ser Leu Arg Arg Ala Ser Glu Thr Thr Val Thr Arg Val Thr Leu Pro
50 55 60

Pro Ser
65

<210> 521

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 521

Ala Pro Gly Xaa Gly Trp Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro
1 5 10 15

Pro Arg Ala Ser Leu Ser Ser Asp Thr Ser Ala Leu Ser Tyr
20 25 30

<210> 522

<211> 36

<212> PRT

<213> Homo sapiens

<400> 522

Asp Ser Val Lys Tyr Thr Leu Val Val Asp Glu His Ala Gln Leu Glu
1 5 10 15

Leu Val Ser Leu Arg Arg Ala Ser Glu Thr Thr Val Thr Arg Val Thr
20 25 30

Leu Pro Pro Ser
35

<210> 523

<211> 156

<212> PRT

<213> Homo sapiens

10004360 120701

<400> 523

Met Lys Ala Ile Gly Ile Glu Pro Ser Leu Ala Thr Tyr His His Ile
 1 5 10 15

Ile Arg Leu Phe Asp Gln Pro Gly Asp Pro Leu Lys Arg Ser Ser Phe
 20 25 30

Ile Ile Tyr Asp Ile Met Asn Glu Leu Met Gly Lys Arg Phe Ser Pro
 35 40 45

Lys Asp Pro Asp Asp Asp Lys Phe Phe Gln Ser Ala Met Ser Ile Cys
 50 55 60

Ser Ser Leu Arg Asp Leu Glu Leu Ala Tyr Gln Val His Gly Leu Leu
 65 70 75 80

Lys Thr Gly Asp Asn Trp Lys Phe Ile Gly Pro Asp Gln His Arg Asn
 85 90 95

Phe Tyr Tyr Ser Lys Phe Phe Asp Leu Ile Cys Leu Met Glu Gln Ile
 100 105 110

Asp Val Thr Leu Lys Trp Tyr Glu Asp Leu Ile Pro Ser Ala Tyr Phe
 115 120 125

Pro His Ser Gln Thr Met Ile His Leu Leu Gln Ala Leu Asp Val Ala
 130 135 140

Asn Arg Leu Glu Val Ile Pro Lys Ile Trp Glu Arg
 145 150 155

<210> 524

<211> 176

<212> PRT

<213> Homo sapiens

<400> 524

Lys Asp Ser Lys Glu Tyr Gly His Thr Phe Arg Ser Asp Leu Arg Glu
 1 5 10 15

Glu Ile Leu Met Leu Met Ala Arg Asp Lys His Pro Pro Glu Leu Gln
 20 25 30

Val Ala Phe Ala Asp Cys Ala Ala Asp Ile Lys Ser Ala Tyr Glu Ser
 35 40 45

Gln Pro Ile Arg Gln Thr Ala Gln Asp Trp Pro Ala Thr Ser Leu Asn
 50 55 60

Cys Ile Ala Ile Leu Phe Leu Arg Ala Gly Arg Thr Gln Glu Ala Trp
 65 70 75 80

Lys Met Leu Gly Leu Phe Arg Lys His Asn Lys Ile Pro Arg Ser Glu
 85 90 95

Leu Leu Asn Glu Leu Met Asp Ser Ala Lys Val Ser Asn Ser Pro Ser
 100 105 110

10004860-120701

Gln Ala Ile Glu Val Val Glu Leu Ala Ser Ala Phe Ser Leu Pro Ile
 115 120 125
 Cys Glu Gly Leu Thr Gln Arg Val Met Ser Asp Phe Ala Ile Asn Gln
 130 135 140
 Glu Gln Lys Glu Ala Leu Ser Asn Leu Thr Ala Leu Thr Ser Asp Ser
 145 150 155 160
 Asp Thr Asp Ser Ser Ser Asp Ser Asp Ser Asp Thr Ser Glu Gly Lys
 165 170 175

<210> 525
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 525
 Met Lys Ala Ile Gly Ile Glu Pro Ser Leu Ala Thr Tyr His His Ile
 1 5 10 15
 Ile Arg Leu Phe Asp Gln Pro Gly Asp Pro Leu Lys Arg Ser Ser Phe
 20 25 30
 Ile Ile Tyr Asp Ile Met Asn Glu Leu Met Gly Lys Arg Phe Ser Pro
 35 40 45

Lys

<210> 526
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 526
 Asp Pro Asp Asp Asp Lys Phe Phe Gln Ser Ala Met Ser Ile Cys Ser
 1 5 10 15
 Ser Leu Arg Asp Leu Glu Leu Ala Tyr Gln Val His Gly Leu Leu Lys
 20 25 30
 Thr Gly Asp Asn Trp Lys Phe Ile Gly Pro Asp Gln His Arg Asn Phe
 35 40 45

Tyr

<210> 527
 <211> 28
 <212> PRT

10004660.120701

<213> Homo sapiens

<400> 527

Tyr Ser Lys Phe Phe Asp Leu Ile Cys Leu Met Glu Gln Ile Asp Val
1 5 10 15

Thr Leu Lys Trp Tyr Glu Asp Leu Ile Pro Ser Ala
20 25

<210> 528

<211> 30

<212> PRT

<213> Homo sapiens

<400> 528

Tyr Phe Pro His Ser Gln Thr Met Ile His Leu Leu Gln Ala Leu Asp
1 5 10 15

Val Ala Asn Arg Leu Glu Val Ile Pro Lys Ile Trp Glu Arg
20 25 30

<210> 529

<211> 46

<212> PRT

<213> Homo sapiens

<400> 529

Lys Asp Ser Lys Glu Tyr Gly His Thr Phe Arg Ser Asp Leu Arg Glu
1 5 10 15

Glu Ile Leu Met Leu Met Ala Arg Asp Lys His Pro Pro Glu Leu Gln
20 25 30

Val Ala Phe Ala Asp Cys Ala Ala Asp Ile Lys Ser Ala Tyr
35 40 45

<210> 530

<211> 50

<212> PRT

<213> Homo sapiens

<400> 530

Glu Ser Gln Pro Ile Arg Gln Thr Ala Gln Asp Trp Pro Ala Thr Ser
1 5 10 15

Leu Asn Cys Ile Ala Ile Leu Phe Leu Arg Ala Gly Arg Thr Gln Glu
20 25 30

Ala Trp Lys Met Leu Gly Leu Phe Arg Lys His Asn Lys Ile Pro Arg
35 40 45

Ser Glu
50

10004860-120701

<210> 531
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 531
 Leu Leu Asn Glu Leu Met Asp Ser Ala Lys Val Ser Asn Ser Pro Ser
 1 5 10 15
 Gln Ala Ile Glu Val Val Glu Leu Ala Ser Ala Phe Ser Leu Pro Ile
 20 25 30
 Cys Glu Gly Leu Thr Gln Arg Val Met Ser Asp Phe Ala Ile Asn
 35 40 45

<210> 532
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 532
 Gln Glu Gln Lys Glu Ala Leu Ser Asn Leu Thr Ala Leu Thr Ser Asp
 1 5 10 15
 Ser Asp Thr Asp Ser Ser Ser Asp Ser Asp Ser Asp Thr Ser Glu Gly
 20 25 30

Lys

<210> 533
 <211> 324
 <212> PRT
 <213> Homo sapiens

<400> 533
 Met Ser Ser Asp Asn Glu Ser Asp Ile Glu Asp Glu Asp Leu Lys Leu
 1 5 10 15
 Glu Leu Arg Arg Leu Arg Asp Lys His Leu Lys Glu Ile Gln Asp Leu
 20 25 30
 Gln Ser Arg Gln Lys His Glu Ile Glu Ser Leu Tyr Thr Lys Leu Gly
 35 40 45
 Lys Val Pro Pro Ala Val Ile Ile Pro Pro Ala Ala Pro Leu Ser Gly
 50 55 60
 Arg Arg Arg Arg Pro Thr Lys Ser Lys Gly Ser Lys Ser Ser Arg Ser
 65 70 75 80
 Ser Ser Leu Gly Asn Lys Ser Pro Gln Leu Ser Gly Asn Leu Ser Gly
 85 90 95
 Gln Ser Ala Ala Ser Val Leu His Pro Gln Gln Thr Leu His Pro Pro
 100 105 110

10004360.120701

Gly Asn Ile Pro Glu Ser Gly Gln Asn Gln Leu Leu Gln Pro Leu Lys
 115 120 125
 Pro Ser Pro Ser Ser Asp Asn Leu Tyr Ser Ala Phe Thr Ser Asp Gly
 130 135 140
 Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly Gln Gly Thr Ser Ser
 145 150 155 160
 Thr Asn Thr Val Gly Ala Thr Val Asn Ser Gln Ala Ala Gln Ala Gln
 165 170 175
 Pro Pro Ala Met Thr Ser Ser Arg Lys Gly Thr Phe Thr Asp Asp Leu
 180 185 190
 His Lys Leu Val Asp Asn Trp Ala Arg Asp Ala Met Asn Leu Ser Gly
 195 200 205
 Arg Arg Gly Ser Lys Gly His Met Asn Tyr Glu Gly Pro Gly Met Ala
 210 215 220
 Arg Lys Phe Ser Ala Pro Gly Gln Leu Cys Ile Ser Met Thr Ser Asn
 225 230 235 240
 Leu Gly Gly Ser Ala Pro Ile Ser Ala Ala Ser Ala Thr Ser Leu Gly
 245 250 255
 His Phe Thr Lys Ser Met Cys Pro Pro Gln Gln Tyr Gly Phe Pro Ala
 260 265 270
 Thr Pro Phe Gly Ala Gln Trp Ser Gly Thr Gly Gly Pro Ala Pro Gln
 275 280 285
 Pro Leu Gly Gln Phe Gln Pro Val Gly Thr Ala Ser Leu Gln Asn Phe
 290 295 300
 Asn Ile Ser Asn Leu Gln Lys Ser Ile Ser Asn Pro Pro Gly Ser Asn
 305 310 315 320
 Leu Arg Thr Thr

<210> 534
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 534
 Ile Gln Asp Leu Gln Ser Arg Gln Lys His Glu Ile Glu Ser Leu Tyr
 1 5 10 15
 Thr Lys Leu Gly Lys Val Pro Pro Ala Val Ile Ile Pro Pro Ala Ala
 20 25 30
 Pro Leu Ser Gly Arg Arg Arg Arg Pro Thr Lys Ser Lys Gly Ser Lys
 35 40 45

10004860-120701

Ser Ser Arg Ser Ser Ser Leu Gly Asn Lys Ser Pro Gln Leu Ser Gly
50 55 60

Asn Leu Ser Gly Gln Ser Ala Ala Ser Val Leu His Pro Gln Gln Thr
65 70 75 80

Leu His Pro Pro Gly Asn Ile Pro Glu Ser Gly Gln Asn Gln Leu Leu
85 90 95

Gln Pro Leu Lys Pro Ser Pro Ser Ser Asp Asn Leu Tyr Ser Ala Phe
100 105 110

Thr Ser Asp Gly Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly Gln
115 120 125

Gly Thr Ser Ser Thr
130

<210> 535

<211> 53

<212> PRT

<213> Homo sapiens

<400> 535

Thr Ser Asp Gly Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly Gln
1 5 10 15

Gly Thr Ser Ser Thr Asn Thr Val Gly Ala Thr Val Asn Ser Gln Ala
20 25 30

Ala Gln Ala Gln Pro Pro Ala Met Thr Ser Ser Arg Lys Gly Thr Phe
35 40 45

Thr Asp Asp Leu His
50

<210> 536

<211> 48

<212> PRT

<213> Homo sapiens

<400> 536

Lys Gly His Met Asn Tyr Glu Gly Pro Gly Met Ala Arg Lys Phe Ser
1 5 10 15

Ala Pro Gly Gln Leu Cys Ile Ser Met Thr Ser Asn Leu Gly Gly Ser
20 25 30

Ala Pro Ile Ser Ala Ala Ser Ala Thr Ser Leu Gly His Phe Thr Lys
35 40 45

10004850-120701

<210> 537
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 537
 Gln Pro Leu Lys Pro Ser Pro Ser Ser Asp Asn Leu Tyr Ser Ala Phe
 1 5 10 15
 Thr Ser Asp Gly Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly
 20 25 30

<210> 538
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 538
 Met Ser Ser Asp Asn Glu Ser Asp Ile Glu Asp Glu Asp Leu Lys Leu
 1 5 10 15
 Glu Leu Arg Arg Leu Arg Asp Lys His Leu Lys Glu Ile Gln Asp Leu
 20 25 30
 Gln Ser Arg Gln Lys His Glu Ile Glu Ser Leu Tyr Thr Lys Leu Gly
 35 40 45
 Lys Val Pro
 50

<210> 539
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 539
 Pro Ala Val Ile Ile Pro Pro Ala Ala Pro Leu Ser Gly Arg Arg Arg
 1 5 10 15
 Arg Pro Thr Lys Ser Lys Gly Ser Lys Ser Ser Arg Ser Ser Ser Leu
 20 25 30
 Gly Asn Lys Ser Pro Gln Leu Ser Gly Asn Leu Ser Gly Gln Ser
 35 40 45

<210> 540
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 540
 Ala Ala Ser Val Leu His Pro Gln Gln Thr Leu His Pro Pro Gly Asn
 1 5 10 15
 Ile Pro Glu Ser Gly Gln Asn Gln Leu Leu Gln Pro Leu Lys Pro Ser

10004860-120701

20

25

30

Pro Ser Ser Asp Asn Leu Tyr Ser Ala Phe Thr Ser Asp Gly Ala Ile
 35 40 45

Ser Val
 50

<210> 541
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 541
 Pro Ser Leu Ser Ala Pro Gly Gln Gly Thr Ser Ser Thr Asn Thr Val
 1 5 10 15

Gly Ala Thr Val Asn Ser Gln Ala Ala Gln Ala Gln Pro Pro Ala Met
 20 25 30

Thr Ser Ser Arg Lys Gly Thr Phe Thr Asp Asp Leu
 35 40

<210> 542
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 542
 His Lys Leu Val Asp Asn Trp Ala Arg Asp Ala Met Asn Leu Ser Gly
 1 5 10 15

Arg Arg Gly Ser Lys Gly His Met Asn Tyr Glu Gly Pro Gly Met Ala
 20 25 30

Arg Lys Phe Ser Ala Pro Gly Gln Leu Cys Ile Ser Met Thr
 35 40 45

<210> 543
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 543
 Ser Asn Leu Gly Gly Ser Ala Pro Ile Ser Ala Ala Ser Ala Thr Ser
 1 5 10 15

Leu Gly His Phe Thr Lys Ser Met Cys Pro Pro Gln Gln Tyr Gly Phe
 20 25 30

Pro Ala Thr Pro Phe Gly Ala Gln Trp Ser Gly Thr Gly Gly
 35 40 45

<210> 544

10004850-120701

<211> 40
 <212> PRT
 <213> Homo sapiens.

<400> 544
 Pro Ala Pro Gln Pro Leu Gly Gln Phe Gln Pro Val Gly Thr Ala Ser
 1 5 10 15
 Leu Gln Asn Phe Asn Ile Ser Asn Leu Gln Lys Ser Ile Ser Asn Pro
 20 25 30
 Pro Gly Ser Asn Leu Arg Thr Thr
 35 40

<210> 545
 <211> 57
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 545
 Val Arg Val Ala Ala Glu Ser Met Xaa Leu Leu Leu Glu Cys Ala
 1 5 10 15
 Xaa Val Arg Gly Pro Glu Tyr Leu Thr Gln Met Trp His Phe Met Cys
 20 25 30
 Asp Ala Leu Ile Lys Ala Ile Gly Thr Glu Pro Asp Ser Asp Val Leu
 35 40 45
 Ser Glu Ile Met His Ser Phe Ala Lys
 50 55

<210> 546
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 546
 Met Glu Ile Asn Asn Gln Asn Cys Phe Ile Val Ile Asp Leu Val Arg
 1 5 10 15
 Thr Val Met Glu Asn Gly Val Glu Gly Leu Leu Ile Phe Gly Ala Phe
 20 25 30
 Leu Pro Glu Ser Trp Leu Ile Gly Val Arg Cys Ser Ser Glu Pro Pro
 35 40 45

10001660-120701

Lys Ala Leu Leu Leu Ile Leu Ala His Ser Gln Lys Arg Arg Leu Asp
 50 55 60

Gly Trp Ser Phe Ile Arg His Leu Arg Val His Tyr Cys Val Ser Leu
 65 70 75 80

Thr Ile His Phe Ser
 85

<210> 547

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 547

Gly Gly Arg Glu Ala Asn Lys Xaa Phe Phe Ile Glu Ser Cys Ile Ala
 1 5 10 15

Leu Phe Val Ser Phe Ile Ile Asn Val Phe Val Val Ser Val Phe Ala
 20 25 30

Glu Xaa Phe Phe Gly Xaa Thr Asn Glu Gln Val Val Glu Val Cys Thr
 35 40 45

Asn Thr Ser Ser Pro His Ala Gly Leu Phe Pro Lys Asp Asn Ser Thr
 50 55 60

Leu Ala Val Asp Ile Tyr Lys Gly Gly Val Val Leu Gly Cys Tyr Phe
 65 70 75 80

Gly Pro Ala Ala Leu Tyr Ile Trp Ala Val Gly Ile Leu Ala Ala Gly
 85 90 95

Gln Ser Ser Thr
 100

<210> 548

<211> 45

<212> PRT

<213> Homo sapiens

10004350-12001

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids.

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 548
 Gly Gly Arg Glu Ala Asn Lys Xaa Phe Phe Ile Glu Ser Cys Ile Ala
 1 5 10 15
 Leu Phe Val Ser Phe Ile Ile Asn Val Phe Val Val Ser Val Phe Ala
 20 25 30
 Glu Xaa Phe Phe Gly Xaa Thr Asn Glu Gln Val Val Glu
 35 40 45

<210> 549
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 549
 Val Cys Thr Asn Thr Ser Ser Pro His Ala Gly Leu Phe Pro Lys Asp
 1 5 10 15
 Asn Ser Thr Leu Ala Val Asp Ile Tyr Lys Gly Gly Val Val Leu Gly
 20 25 30
 Cys Tyr Phe Gly Pro Ala Ala Leu Tyr Ile Trp Ala Val Gly Ile Leu
 35 40 45
 Ala Ala Gly Gln Ser Ser Thr
 50 55

<210> 550
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 550
 Gln Asp Lys His Ala Glu Glu Val Arg Lys Asn Lys Glu Leu Lys Glu
 1 5 10 15
 Glu Ala Ser Arg
 20

10004560.120701

<210> 551
 <211> 92
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 551
 Gln Gln Asp Leu Ser Pro Trp Ala Ala Pro Val Gly Cys Pro Leu Xaa
 1 5 10 15

Xaa Ala Ser Xaa Thr Cys His Xaa Leu Pro Leu Ser Gly Cys Leu Arg
 20 25 30

Arg Gln Ser Xaa Ser Leu Pro Val Val Ala Xaa Leu Cys Phe Trp Phe
 35 40 45

Ser Cys Pro Leu Ala Ser Leu Phe Val Pro Gly Gln Pro Cys Val Thr
 50 55 60

Cys Pro Phe Pro Ser Leu Pro Phe Gln Asp Lys His Ala Glu Glu Val
 65 70 75 80

Arg Lys Asn Lys Glu Leu Lys Glu Glu Ala Ser Arg
 85 90

<210> 552
 <211> 37

10004660-120701

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 552
 Pro Thr Arg Cys Cys Thr Thr Gln Pro Cys Arg Ser Ser Ala Arg Arg
 1 5 10 15

Pro Cys Trp Val Pro Met Val Pro Ser Pro Glu Gly Arg Glu Xaa Gln
 20 25 30

Pro Thr Cys Pro Ser
 35

<210> 553
 <211> 363
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (211)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 553
 Met Lys Arg Ser Leu Asn Glu Asn Ser Ala Arg Ser Thr Ala Gly Cys
 1 5 10 15

Leu Pro Val Pro Leu Phe Asn Gln Lys Lys Arg Asn Arg Gln Pro Leu
 20 25 30

Thr Ser Asn Pro Leu Lys Asp Asp Ser Gly Ile Ser Thr Pro Ser Asp
 35 40 45

Asn Tyr Asp Phe Pro Pro Leu Pro Thr Asp Trp Ala Trp Glu Ala Val
 50 55 60

Asn Pro Glu Xaa Ala Pro Val Met Lys Thr Val Asp Thr Gly Gln Ile
 65 70 75 80

Pro His Ser Val Ser Arg Pro Leu Arg Ser Gln Asp Ser Val Phe Asn
 85 90 95

10004350 120701

Ser Ile Gln Ser Asn Thr Gly Arg Ser Gln Gly Gly Trp Ser Tyr Arg
 100 105 110
 Asp Gly Asn Lys Asn Thr Ser Leu Lys Thr Trp Xaa Lys Asn Asp Phe
 115 120 125
 Lys Pro Gln Cys Lys Arg Thr Asn Leu Val Ala Asn Asp Gly Lys Asn
 130 135 140
 Ser Cys Pro Met Ser Ser Gly Ala Gln Gln Gln Lys Gln Leu Arg Thr
 145 150 155 160
 Pro Glu Pro Pro Asn Leu Ser Arg Asn Lys Glu Thr Glu Leu Leu Arg
 165 170 175
 Gln Thr His Ser Ser Lys Ile Ser Gly Cys Thr Met Arg Gly Leu Asp
 180 185 190
 Lys Asn Ser Ala Leu Gln Thr Leu Lys Pro Asn Phe Gln Gln Asn Gln
 195 200 205
 Tyr Lys Xaa Gln Met Leu Asp Asp Ile Pro Glu Asp Asn Thr Leu Lys
 210 215 220
 Glu Thr Ser Leu Tyr Gln Leu Gln Phe Lys Glu Lys Ala Ser Ser Leu
 225 230 235 240
 Arg Ile Ile Ser Ala Val Ile Glu Ser Met Lys Tyr Trp Arg Glu His
 245 250 255
 Ala Gln Lys Thr Val Leu Leu Phe Glu Val Leu Ala Val Leu Asp Ser
 260 265 270
 Ala Val Thr Pro Gly Pro Tyr Tyr Ser Lys Thr Phe Leu Met Arg Asp
 275 280 285
 Gly Lys Asn Thr Leu Pro Cys Val Phe Tyr Glu Ile Asp Arg Glu Leu
 290 295 300
 Pro Arg Leu Ile Arg Gly Arg Val His Arg Cys Val Gly Asn Tyr Asp
 305 310 315 320
 Gln Lys Lys Asn Ile Phe Gln Cys Val Ser Val Arg Pro Ala Ser Val
 325 330 335
 Ser Glu Gln Lys Thr Phe Gln Ala Phe Val Lys Ile Ala Asp Val Glu
 340 345 350
 Met Gln Tyr Tyr Ile Asn Val Met Asn Glu Thr
 355 360

<210> 554

<211> 45

<212> PRT

<213> Homo sapiens

<220>

10004660-120701

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 554

Ser Gln Asp Ser Val Phe Asn Ser Ile Gln Ser Asn Thr Gly Arg Ser
1 5 10 15

Gln Gly Gly Trp Ser Tyr Arg Asp Gly Asn Lys Asn Thr Ser Leu Lys
20 25 30

Thr Trp Xaa Lys Asn Asp Phe Lys Pro Gln Cys Lys Arg
35 40 45

<210> 555

<211> 36

<212> PRT

<213> Homo sapiens

<400> 555

Asn Lys Glu Thr Glu Leu Leu Arg Gln Thr His Ser Ser Lys Ile Ser
1 5 10 15

Gly Cys Thr Met Arg Gly Leu Asp Lys Asn Ser Ala Leu Gln Thr Leu
20 25 30

Lys Pro Asn Phe
35

<210> 556

<211> 49

<212> PRT

<213> Homo sapiens

<400> 556

Ser Ser Leu Arg Ile Ile Ser Ala Val Ile Glu Ser Met Lys Tyr Trp
1 5 10 15

Arg Glu His Ala Gln Lys Thr Val Leu Leu Phe Glu Val Leu Ala Val
20 25 30

Leu Asp Ser Ala Val Thr Pro Gly Pro Tyr Tyr Ser Lys Thr Phe Leu
35 40 45

Met

<210> 557

<211> 42

<212> PRT

<213> Homo sapiens

<400> 557

Pro Arg Leu Ile Arg Gly Arg Val His Arg Cys Val Gly Asn Tyr Asp
1 5 10 15

10004360.120701

Gln Lys Lys Asn Ile Phe Gln Cys Val Ser Val Arg Pro Ala Ser Val
 20 25 30

Ser Glu Gln Lys Thr Phe Gln Ala Phe Val
 35 40

<210> 558

<211> 370

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (320)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (334)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (337)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (339)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (341)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (345)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (350)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (352)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (355)

<223> Xaa equals any of the naturally occurring L-amino acids

10004850 120701

<220>

<221> SITE

<222> (360)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 558

Gly Val Phe Arg Pro Cys Val Cys Gly Arg Pro Ala Ser Leu Thr Cys
 1 5 10 15

Ser Pro Leu Asp Pro Glu Val Gly Pro Tyr Cys Asp Thr Pro Thr Met
 20 25 30

Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro Val
 35 40 45

His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys Thr
 50 55 60

Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg Gly
 65 70 75 80

Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His Arg
 85 90 95

Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp Val
 100 105 110

Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr Lys
 115 120 125

Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln Leu
 130 135 140

Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp Val
 145 150 155 160

Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu His
 165 170 175

Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe Arg
 180 185 190

Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr Val
 195 200 205

Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu Val
 210 215 220

Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met Leu
 225 230 235 240

Thr His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu Leu
 245 250 255

Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met Phe
 260 265 270

Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly Phe Ser

10004550-120701

275

280

285

Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro Asn Ala
 290 295 300

Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro Lys Xaa
 305 310 315 320

Lys Trp Arg Thr Lys Ser Ser Trp Gly Ser Thr Ser Met Xaa Trp Thr
 325 330 335

Xaa Arg Xaa Pro Xaa Asp Ala Arg Xaa Pro Val Val Gly Xaa Arg Xaa
 340 345 350

Ile Gln Xaa Leu Lys Asp His Xaa Pro Arg Met Val Leu Asp Ser Lys
 355 360 365

Pro Gln
 370

<210> 559

<211> 39

<212> PRT

<213> Homo sapiens

<400> 559

Thr Cys Ser Pro Leu Asp Pro Glu Val Gly Pro Tyr Cys Asp Thr Pro
 1 5 10 15

Thr Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser
 20 25 30

Pro Val His Thr Thr Leu Ser
 35

<210> 560

<211> 54

<212> PRT

<213> Homo sapiens

<400> 560

Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His Arg
 1 5 10 15

Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp Val
 20 25 30

Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr Lys
 35 40 45

Val Phe Gly Ser Lys Phe
 50

<210> 561

<211> 52

10004350.120701

<212> PRT
 <213> Homo sapiens

<400> 561

Arg Glu Met Phe Glu Val Thr Gly Leu His Asp Val Asp Gln Gly Trp
 1 5 10 15

Met Arg Ala Val Arg Lys His Ala Lys Gly Leu His Ile Val Pro Arg
 20 25 30

Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe Arg Asn Val Leu Asp
 35 40 45

Ser Glu Asp Glu
 50

<210> 562

<211> 56

<212> PRT

<213> Homo sapiens

<400> 562

His Phe Asp Gly Phe Val Val Glu Val Trp Asn Gln Leu Leu Ser Gln
 1 5 10 15

Lys Arg Val Gly Leu Ile His Met Leu Thr His Leu Ala Glu Ala Leu
 20 25 30

His Gln Ala Arg Leu Leu Ala Leu Leu Val Ile Pro Pro Ala Ile Thr
 35 40 45

Pro Gly Thr Asp Gln Leu Gly Met
 50 55

<210> 563

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 563

Asp Gly Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro
 1 5 10 15

Gly Pro Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu
 20 25 30

Asp Pro Lys Xaa Lys Trp Arg Thr Lys Ser Ser Trp Gly Ser Thr
 35 40 45

<210> 564

10004660.12001

<211> 152
 <212> PRT
 <213> Homo sapiens

<400> 564

Glu Arg Gly Val Ser Ile Asn Gln Phe Cys Lys Glu Phe Asn Glu Arg
 1 5 10 15
 Thr Lys Asp Ile Lys Glu Gly Ile Pro Leu Pro Thr Lys Ile Leu Val
 20 25 30
 Lys Pro Asp Arg Thr Phe Glu Ile Lys Ile Gly Gln Pro Thr Val Ser
 35 40 45
 Tyr Phe Leu Lys Ala Ala Ala Gly Ile Glu Lys Gly Ala Arg Gln Thr
 50 55 60
 Gly Lys Glu Val Ala Gly Leu Val Thr Leu Lys His Val Tyr Glu Ile
 65 70 75 80
 Ala Arg Ile Lys Ala Gln Asp Glu Ala Phe Ala Leu Gln Asp Val Pro
 85 90 95
 Leu Ser Ser Val Val Arg Ser Ile Ile Gly Ser Ala Arg Ser Leu Gly
 100 105 110
 Ile Arg Val Val Lys Asp Leu Ser Ser Glu Glu Leu Ala Ala Phe Gln
 115 120 125
 Lys Glu Arg Ala Ile Phe Leu Ala Ala Gln Lys Glu Ala Asp Leu Ala
 130 135 140
 Ala Gln Glu Glu Ala Ala Lys Lys
 145 150

<210> 565
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 565

Glu Arg Gly Val Ser Ile Asn Gln Phe Cys Lys Glu Phe Asn Glu Arg
 1 5 10 15
 Thr Lys Asp Ile Lys Glu Gly Ile Pro Leu Pro Thr Lys Ile Leu Val
 20 25 30
 Lys Pro Asp Arg Thr Phe Glu Ile Lys Ile Gly Gln Pro Thr Val Ser
 35 40 45
 Tyr Phe Leu
 50

<210> 566
 <211> 49
 <212> PRT

10004860-120701

<213> Homo sapiens

<400> 566

Lys Ala Ala Ala Gly Ile Glu Lys Gly Ala Arg Gln Thr Gly Lys Glu
 1 5 10 15

Val Ala Gly Leu Val Thr Leu Lys His Val Tyr Glu Ile Ala Arg Ile
 20 25 30

Lys Ala Gln Asp Glu Ala Phe Ala Leu Gln Asp Val Pro Leu Ser Ser
 35 40 45

Val

<210> 567

<211> 52

<212> PRT

<213> Homo sapiens

<400> 567

Val Arg Ser Ile Ile Gly Ser Ala Arg Ser Leu Gly Ile Arg Val Val
 1 5 10 15

Lys Asp Leu Ser Ser Glu Glu Leu Ala Ala Phe Gln Lys Glu Arg Ala
 20 25 30

Ile Phe Leu Ala Ala Gln Lys Glu Ala Asp Leu Ala Ala Gln Glu Glu
 35 40 45

Ala Ala Lys Lys
 50

<210> 568

<211> 270

<212> PRT

<213> Homo sapiens

<400> 568

Ala Val Tyr Thr Tyr His Glu Lys Lys Lys Asp Thr Ala Ala Ser Gly
 1 5 10 15

Tyr Gly Thr Gln Asn Ile Arg Leu Ser Arg Asp Ala Val Lys Asp Phe
 20 25 30

Asp Cys Cys Cys Leu Ser Leu Gln Pro Cys His Asp Pro Val Val Thr
 35 40 45

Pro Asp Gly Tyr Leu Tyr Glu Arg Glu Ala Ile Leu Glu Tyr Ile Leu
 50 55 60

His Gln Lys Lys Glu Ile Ala Arg Gln Met Lys Ala Tyr Glu Lys Gln
 65 70 75 80

Arg Gly Thr Arg Arg Glu Glu Gln Lys Glu Leu Gln Arg Ala Ala Ser
 85 90 95

I000430-120701

Gln Asp His Val Arg Gly Phe Leu Glu Lys Glu Ser Ala Ile Val Ser
100 105 110

Arg Pro Leu Asn Pro Phe Thr Ala Lys Ala Leu Ser Gly Thr Ser Pro
115 120 125

Asp Asp Val Gln Pro Gly Pro Ser Val Gly Pro Pro Ser Lys Asp Lys
130 135 140

Asp Lys Val Leu Pro Ser Phe Trp Ile Pro Ser Leu Thr Pro Glu Ala
145 150 155 160

Lys Ala Thr Lys Leu Glu Lys Pro Ser Arg Thr Val Thr Cys Pro Met
165 170 175

Ser Gly Lys Pro Leu Arg Met Ser Asp Leu Thr Pro Val His Phe Thr
180 185 190

Pro Leu Asp Ser Ser Val Asp Arg Val Gly Leu Ile Thr Arg Ser Glu
195 200 205

Arg Tyr Val Cys Ala Val Thr Arg Asp Ser Leu Ser Asn Ala Thr Pro
210 215 220

Cys Ala Val Leu Arg Pro Ser Gly Ala Val Val Thr Leu Glu Cys Val
225 230 235 240

Glu Lys Leu Ile Arg Lys Asp Met Val Asp Pro Val Thr Gly Asp Lys
245 250 255

Leu Thr Asp Arg Asp Ile Ile Val Leu Gln Arg Gly Gly Thr
260 265 270

<210> 569

<211> 54

<212> PRT

<213> Homo sapiens

<400> 569

Tyr Leu Tyr Glu Arg Glu Ala Ile Leu Glu Tyr Ile Leu His Gln Lys
1 5 10 15

Lys Glu Ile Ala Arg Gln Met Lys Ala Tyr Glu Lys Gln Arg Gly Thr
20 25 30

Arg Arg Glu Glu Gln Lys Glu Leu Gln Arg Ala Ala Ser Gln Asp His
35 40 45

Val Arg Gly Phe Leu Glu
50

<210> 570

<211> 64

<212> PRT

<213> Homo sapiens

10004860-120701

<400> 570

Phe Thr Ala Lys Ala Leu Ser Gly Thr Ser Pro Asp Asp Val Gln Pro
 1 5 10 15

Gly Pro Ser Val Gly Pro Pro Ser Lys Asp Lys Asp Lys Val Leu Pro
 20 25 30

Ser Phe Trp Ile Pro Ser Leu Thr Pro Glu Ala Lys Ala Thr Lys Leu
 35 40 45

Glu Lys Pro Ser Arg Thr Val Thr Cys Pro Met Ser Gly Lys Pro Leu
 50 55 60

<210> 571

<211> 56

<212> PRT

<213> Homo sapiens

<400> 571

Val His Phe Thr Pro Leu Asp Ser Ser Val Asp Arg Val Gly Leu Ile
 1 5 10 15

Thr Arg Ser Glu Arg Tyr Val Cys Ala Val Thr Arg Asp Ser Leu Ser
 20 25 30

Asn Ala Thr Pro Cys Ala Val Leu Arg Pro Ser Gly Ala Val Val Thr
 35 40 45

Leu Glu Cys Val Glu Lys Leu Ile
 50 55

<210> 572

<211> 66

<212> PRT

<213> Homo sapiens

<400> 572

Met Ser Asp Leu Thr Pro Val His Phe Thr Pro Leu Asp Ser Ser Val
 1 5 10 15

Asp Arg Val Gly Leu Ile Thr Arg Ser Glu Arg Tyr Val Cys Ala Val
 20 25 30

Thr Arg Asp Ser Leu Ser Asn Ala Thr Pro Cys Ala Val Leu Arg Pro
 35 40 45

Ser Gly Ala Val Val Thr Leu Glu Cys Val Glu Lys Leu Ile Arg Lys
 50 55 60

Asp Met
 65

10004560-120701

<210> 573
 <211> 567
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (409)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 573

Met Asp Thr Ser Glu Asn Arg Pro Glu Asn Asp Val Pro Glu Pro Pro
 1 5 10 15

Met Pro Ile Ala Asp Gln Val Ser Asn Asp Asp Arg Pro Glu Gly Ser
 20 25 30

Val Glu Asp Glu Glu Lys Lys Glu Ser Ser Leu Pro Lys Ser Phe Lys
 35 40 45

Arg Lys Ile Ser Val Val Ser Ala Thr Lys Gly Val Pro Ala Gly Asn
 50 55 60

Ser Asp Thr Glu Gly Gly Gln Pro Gly Arg Lys Arg Arg Trp Gly Ala
 65 70 75 80

Ser Thr Ala Thr Thr Gln Lys Lys Pro Ser Ile Ser Ile Thr Thr Glu
 85 90 95

Ser Leu Lys Ser Leu Ile Pro Asp Ile Lys Pro Leu Ala Gly Gln Glu
 100 105 110

Ala Val Val Asp Leu His Ala Asp Asp Ser Arg Ile Ser Glu Asp Glu
 115 120 125

Thr Glu Arg Asn Gly Asp Asp Gly Thr His Asp Lys Gly Leu Lys Ile
 130 135 140

Cys Arg Thr Val Thr Gln Val Val Pro Ala Glu Gly Gln Glu Asn Gly
 145 150 155 160

Gln Arg Glu Glu Glu Glu Glu Lys Glu Pro Glu Ala Glu Pro Pro
 165 170 175

Val Pro Pro Gln Val Ser Val Glu Val Ala Leu Pro Pro Pro Ala Glu
 180 185 190

His Glu Val Lys Lys Val Thr Leu Gly Asp Thr Leu Thr Arg Arg Ser
 195 200 205

Ile Ser Gln Gln Lys Ser Gly Val Ser Ile Thr Ile Asp Asp Pro Val
 210 215 220

Arg Thr Ala Gln Val Pro Ser Pro Pro Arg Gly Lys Ile Ser Asn Ile
 225 230 235 240

Val His Ile Ser Asn Leu Val Arg Pro Phe Thr Leu Gly Gln Leu Lys

10004860-120701

	245		250		255
Glu Leu Leu Gly Arg Thr Gly Thr Leu Val Glu Glu Ala Phe Trp Ile					
	260		265		270
Asp Lys Ile Lys Ser His Cys Phe Val Thr Tyr Ser Thr Val Glu Glu					
	275		280		285
Ala Val Ala Thr Arg Thr Ala Leu His Gly Val Lys Trp Pro Gln Ser					
	290		295		300
Asn Pro Lys Phe Leu Cys Ala Asp Tyr Ala Glu Gln Asp Glu Leu Asp					
	305		310		315
Tyr His Arg Gly Leu Leu Val Asp Arg Pro Ser Glu Thr Lys Thr Glu					
	325		330		335
Glu Gln Gly Ile Pro Arg Pro Leu His Pro Pro Pro Pro Pro Pro Val					
	340		345		350
Gln Pro Pro Gln His Pro Arg Ala Glu Gln Arg Glu Gln Glu Arg Ala					
	355		360		365
Val Arg Glu Gln Trp Ala Glu Arg Glu Arg Glu Met Glu Arg Arg Glu					
	370		375		380
Arg Thr Arg Ser Glu Arg Glu Trp Asp Arg Asp Lys Val Arg Glu Gly					
	385		390		395
Pro Arg Ser Arg Ser Arg Ser Arg Xaa Arg Arg Arg Lys Glu Arg Ala					
	405		410		415
Lys Ser Lys Glu Lys Lys Ser Glu Lys Lys Glu Lys Ala Gln Glu Glu					
	420		425		430
Pro Pro Ala Lys Leu Leu Asp Asp Leu Phe Arg Lys Thr Lys Ala Ala					
	435		440		445
Pro Cys Ile Tyr Trp Leu Pro Leu Thr Asp Ser Gln Ile Val Gln Lys					
	450		455		460
Glu Ala Glu Arg Ala Glu Arg Ala Lys Glu Arg Glu Lys Arg Arg Lys					
	465		470		475
Glu Gln Glu Glu Glu Glu Gln Lys Glu Arg Glu Lys Glu Ala Glu Arg					
	485		490		495
Glu Arg Asn Arg Gln Leu Glu Arg Glu Lys Arg Arg Glu His Ser Arg					
	500		505		510
Glu Arg Asp Arg Glu Arg Glu Arg Glu Arg Glu Arg Asp Arg Gly Asp					
	515		520		525
Arg Asp Arg Asp Arg Glu Arg Asp Arg Glu Arg Gly Arg Glu Arg Asp					
	530		535		540
Arg Arg Asp Thr Lys Arg His Ser Arg Ser Arg Ser Arg Ser Thr Pro					
	545		550		555
					560

10004560-120701

Val Arg Asp Arg Gly Gly Arg
565

<210> 574
<211> 48
<212> PRT
<213> Homo sapiens

<400> 574
Glu Asn Asp Val Pro Glu Pro Pro Met Pro Ile Ala Asp Gln Val Ser
1 5 10 15

Asn Asp Asp Arg Pro Glu Gly Ser Val Glu Asp Glu Glu Lys Lys Glu
20 25 30

Ser Ser Leu Pro Lys Ser Phe Lys Arg Lys Ile Ser Val Val Ser Ala
35 40 45

<210> 575
<211> 37
<212> PRT
<213> Homo sapiens

<400> 575
Val Asp Leu His Ala Asp Asp Ser Arg Ile Ser Glu Asp Glu Thr Glu
1 5 10 15

Arg Asn Gly Asp Asp Gly Thr His Asp Lys Gly Leu Lys Ile Cys Arg
20 25 30

Thr Val Thr Gln Val
35

<210> 576
<211> 55
<212> PRT
<213> Homo sapiens

<400> 576
Pro Gln Val Ser Val Glu Val Ala Leu Pro Pro Pro Ala Glu His Glu
1 5 10 15

Val Lys Lys Val Thr Leu Gly Asp Thr Leu Thr Arg Arg Ser Ile Ser
20 25 30

Gln Gln Lys Ser Gly Val Ser Ile Thr Ile Asp Asp Pro Val Arg Thr
35 40 45

Ala Gln Val Pro Ser Pro Pro
50 55

10004860-2000

<210> 577
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 577
 Leu Lys Glu Leu Leu Gly Arg Thr Gly Thr Leu Val Glu Glu Ala Phe
 1 5 10 15
 Trp Ile Asp Lys Ile Lys Ser His Cys Phe Val Thr Tyr Ser Thr Val
 20 25 30
 Glu Glu Ala Val Ala Thr Arg Thr Ala Leu His Gly Val Lys Trp Pro
 35 40 45
 Gln Ser Asn Pro Lys Phe Leu
 50 55

<210> 578
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 578
 Val Asp Arg Pro Ser Glu Thr Lys Thr Glu Glu Gln Gly Ile Pro Arg
 1 5 10 15
 Pro Leu His Pro Pro Pro Pro Pro Pro Val Gln Pro Pro Gln His Pro
 20 25 30
 Arg Ala Glu Gln Arg Glu Gln Glu Arg Ala Val Arg Glu Gln Trp Ala
 35 40 45
 Glu Arg Glu Arg Glu
 50

<210> 579
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 579
 Glu Trp Asp Arg Asp Lys Val Arg Glu Gly Pro Arg Ser Arg Ser Arg
 1 5 10 15
 Ser Arg Xaa Arg Arg Arg Lys Glu Arg Ala Lys Ser Lys Glu Lys Lys
 20 25 30
 Ser Glu Lys Lys Glu Lys Ala Gln Glu Glu Pro Pro Ala Lys Leu Leu
 35 40 45

10004360-120701

Asp Asp Leu Phe Arg Lys Thr Lys Ala Ala Pro
50 55

<210> 580

<211> 64

<212> PRT

<213> Homo sapiens

<400> 580

Pro Leu Thr Asp Ser Gln Ile Val Gln Lys Glu Ala Glu Arg Ala Glu
1 5 10 15

Arg Ala Lys Glu Arg Glu Lys Arg Arg Lys Glu Gln Glu Glu Glu
20 25 30

Gln Lys Glu Arg Glu Lys Glu Ala Glu Arg Glu Arg Asn Arg Gln Leu
35 40 45

Glu Arg Glu Lys Arg Arg Glu His Ser Arg Glu Arg Asp Arg Glu Arg
50 55 60

<210> 581

<211> 32

<212> PRT

<213> Homo sapiens

<400> 581

Leu Asp Val Pro Leu Ala Ser Arg Ser Pro Glu Phe Pro Leu Pro Leu
1 5 10 15

Met Thr Gln Ser Glu Leu Pro Arg Cys Pro Pro His Pro Gly Ala Arg
20 25 30

<210> 582

<211> 15

<212> PRT

<213> Homo sapiens

<400> 582

Leu Ala Thr Leu Ser Ile Ser Pro Ile Trp Ser Val Leu Ser Leu
1 5 10 15

<210> 583

<211> 51

<212> PRT

<213> Homo sapiens

10004860-120701

<400> 583

Gly Cys Asp Ser Cys Pro Pro His Leu Pro Arg Glu Ala Phe Ala Gln
 1 5 10 15

Asp Thr Gln Ala Glu Gly Glu Cys Ser Ser Arg Ala Glu Arg Ala Asp
 20 25 30

Met Cys Pro Asp Ala Pro Pro Ser Gln Glu Val Pro Glu Gly Pro Gly
 35 40 45

Ala Ala Pro
 50

<210> 584

<211> 91

<212> PRT

<213> Homo sapiens

<400> 584

Arg Gly Trp Leu Pro Ser Ser Cys Leu Ser Cys Ala Leu Arg Val Cys
 1 5 10 15

Pro Asp Ser Ser Ser Thr Gln Ala Met Gly Met Leu Leu Ala Phe Trp
 20 25 30

Leu Pro Gly Ala Ser Trp Gln Glu Ala Ala Arg Gly Gln Tyr Ser Glu
 35 40 45

Asp Glu Asp Thr Asp Thr Asp Glu Tyr Lys Glu Ala Lys Ala Ser Ile
 50 55 60

Asn Pro Val Thr Gly Arg Val Glu Glu Lys Pro Pro Asn Pro Met Glu
 65 70 75 80

Gly Met Thr Glu Glu Gln Lys Glu His Glu Ala
 85 90

<210> 585

<211> 27

<212> PRT

<213> Homo sapiens

<400> 585

Thr Gln Ala Met Gly Met Leu Leu Ala Phe Trp Leu Pro Gly Ala Ser
 1 5 10 15

Trp Gln Glu Ala Ala Arg Gly Gln Tyr Ser Glu
 20 25

<210> 586

<211> 50

<212> PRT

<213> Homo sapiens

<400> 586

10004560-120701

Pro Gln Leu Pro Ser Cys Gly Arg Pro Trp Pro Gly Thr Ala Ser Val
1 5 10 15

Phe Gln Ser His Thr Gln Gly Pro Arg Glu Asp Pro Asp Pro Cys Arg
20 25 30

Ala Gln Gly Ser Ala Gly Thr His Cys Pro Ile Ser Leu Ser Pro Pro
35 40 45

Arg Gln
50

<210> 587

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 587

Lys Thr His Pro Arg Ala Leu Trp Ser Ala Gly Pro Ser Cys Ala Leu
1 5 10 15

Cys Pro Gly Gly Ser Gly Xaa Thr Ser Pro Pro Gln Gly Ala Pro Arg
20 25 30

Gly Ile Xaa Trp Asp Arg Cys Pro Gln Ile Gln Val Leu Glu Gly Gln
35 40 45

Arg Val Arg Phe Pro Ser Gln Pro Gln His Pro Ser His Leu Ala Pro
50 55 60

Arg Gly Gly Cys Gly Trp Arg Pro Asp Ser Arg Pro Leu Leu Pro Thr
65 70 75 80

Pro Ser Gly Leu Ser Ser Phe Phe Pro Leu Asp Ala Gln Cys Trp Pro
85 90 95

Trp Arg Thr Val Ser Trp Arg
100

<210> 588

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

10004860.120701

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 588

Ala Gly Ala Pro Gly Gln Gln Ala Arg Leu Gln Tyr Leu Leu Ser Phe
1 5 10 15

Gln Gly Glu Gly Ala Pro His Glu Xaa Gly Ala Thr Gly Glu Gly Gly
20 25 30

Asp Gly Ala Trp Glu Ala Cys Xaa Cys Xaa Arg Cys Leu Leu Asn Trp
35 40 45

Gln Ala Gly Gly Trp Gly Leu Gln Leu Ser Leu Met Trp Leu His Arg
50 55 60

Gly Pro Leu Arg Pro Pro Gly Val Arg Trp Thr Pro Trp Ala Phe Leu
65 70 75 80

Glu Ala Cys Ser Trp Gly Pro Ala Leu Ser Leu Leu Gly Ser Gly His
85 90 95

Ser Leu Pro Gly Thr His Glu Gln Ala Ala Trp Ser Arg Gly Cys Gly
100 105 110

Gln His Gly Gln Ser Pro Thr Gln Lys Cys Lys Ser Ser Lys Glu Pro
115 120 125

Leu Ala Gln Ala Pro Pro Trp Asp Ser Pro Ala Ala Pro Pro His Gln
130 135 140

Gly Phe Ala Asp Val Leu Glu Arg Pro Thr Leu Glu Pro Phe Gly Val
145 150 155 160

Leu Ala Pro Pro Val Pro Ser Ala Leu Val Glu Ala Ala Xaa Gln Val
165 170 175

Leu Leu Arg Glu Pro Gln Gly Gly Phe Xaa Gly Thr Ala Ala His Arg

10004360-120701

180

185

190

Ser Arg Cys Trp Lys Gly Ser Gly
195 200

<210> 589

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 589

Met Gln Leu Leu Phe Leu Leu Pro His Pro Ser Pro Gln Leu His Ala
1 5 10 15

Ser Leu Pro His Ser Ala Ala Leu Pro Cys Pro Arg Gly Glu Ser Leu
20 25 30

Thr Thr Ala Ser Pro Ala Gly Ala Ala Gly Arg Xaa Asp Ala Val Pro
35 40 45

Arg Cys Arg His Gln Ala Gly Arg Gly Trp Val Pro Arg Gly Pro Cys
50 55 60

Glu Arg Gly Gly Gly Asp Arg Gly Lys Pro Arg Ala Val Ala Trp Asp
65 70 75 80

Xaa Gly Ser Leu Arg Trp Ala Val Trp Ser Ala Arg Ala Gly Gln Gly
85 90 95

Arg Ser Ser Glu Pro Ala Pro Leu Ala Ser Arg Arg Gly Tyr Ser Thr
100 105 110

Cys Cys Leu Ser Arg Gly Lys Gly Leu Pro Met Arg Xaa Gly Arg Arg
115 120 125

Gly Arg Gly Val Met Val Pro Gly Lys Pro Ala Cys Ala Xaa Gly Ala
130 135 140

10004360-120701

Cys
145

<210> 590
<211> 34
<212> PRT
<213> Homo sapiens

<400> 590
Gln His Pro Ser His Leu Ala Pro Arg Gly Gly Cys Gly Trp Arg Pro
1 5 10 15

Asp Ser Arg Pro Leu Leu Pro Thr Pro Ser Gly Leu Ser Ser Phe Phe
20 25 30

Pro Leu

<210> 591
<211> 30
<212> PRT
<213> Homo sapiens

<400> 591
Gly Val Arg Trp Thr Pro Trp Ala Phe Leu Glu Ala Cys Ser Trp Gly
1 5 10 15

Pro Ala Leu Ser Leu Leu Gly Ser Gly His Ser Leu Pro Gly
20 25 30

<210> 592
<211> 28
<212> PRT
<213> Homo sapiens

<400> 592
Trp Asp Ser Pro Ala Ala Pro Pro His Gln Gly Phe Ala Asp Val Leu
1 5 10 15

Glu Arg Pro Thr Leu Glu Pro Phe Gly Val Leu Ala
20 25

<210> 593
<211> 28
<212> PRT
<213> Homo sapiens

<400> 593
Arg Ser Ser Glu Pro Ala Pro Leu Ala Ser Arg Arg Gly Tyr Ser Thr
1 5 10 15

Cys Cys Leu Ser Arg Gly Lys Gly Leu Pro Met Arg
20 25

10004360-120701

<210> 594
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 594
 Pro Gly Phe Arg Gly Pro Ser Gly Ser Leu Gly Cys Ser Phe Phe Pro
 1 5 10 15
 Arg Ser Leu Gly Arg Val Leu Pro Pro Gly Cys Gln Arg Pro Gly Ala
 20 25 30
 His Ala Asp Ser Ser Pro Pro Pro Thr Pro
 35 40

<210> 595
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 595
 Glu Asp Leu Lys Lys Pro Asp Pro Ala Ser Leu Arg Ala Ala Ser Cys
 1 5 10 15
 Gly Glu Gly Lys Lys Arg Lys Ala Cys Lys Asn Cys Thr Cys Gly Leu
 20 25 30
 Ala Glu Glu Leu Glu Lys Glu Lys Ser Arg Glu Gln Met Ser Ser Gln
 35 40 45
 Pro Lys Ser Ala Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe Arg Cys
 50 55 60
 Ala Ser Cys Pro Tyr Leu Gly Met Pro Ala Phe Lys Pro Gly Glu Lys
 65 70 75 80
 Val Leu Leu Ser

<210> 596
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 596
 Glu Asp Leu Lys Lys Pro Asp Pro Ala Ser Leu Arg Ala Ala Ser Cys
 1 5 10 15
 Gly Glu Gly Lys Lys Arg Lys Ala Cys Lys Asn Cys Thr Cys Gly Leu
 20 25 30
 Ala Glu Glu Leu Glu Lys Glu Lys Ser Arg Glu Gln Met Ser Ser Gln
 35 40 45

10004560-120701

Pro Lys Ser Ala Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe Arg Cys
 50 55 60

Ala Ser Cys Pro Tyr Leu Gly Met Pro Ala Phe Lys Pro Gly Glu Lys
 65 70 75 80

Val Leu Leu Ser Asp Ser Asn Leu His Asp
 85 90

<210> 597

<211> 34

<212> PRT

<213> Homo sapiens

<400> 597

Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe Arg Cys Ala Ser Cys Pro
 1 5 10 15

Tyr Leu Gly Met Pro Ala Phe Lys Pro Gly Glu Lys Val Leu Leu Ser
 20 25 30

Asp Ser

<210> 598

<211> 25

<212> PRT

<213> Homo sapiens

<400> 598

Ser Cys Gly Glu Gly Lys Lys Arg Lys Ala Cys Lys Asn Cys Thr Cys
 1 5 10 15

Gly Leu Ala Glu Glu Leu Glu Lys Glu
 20 25

<210> 599

<211> 21

<212> PRT

<213> Homo sapiens

<400> 599

Ser Gln Pro Lys Ser Ala Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe
 1 5 10 15

Arg Cys Ala Ser Cys
 20

<210> 600

<211> 17

<212> PRT

<213> Homo sapiens

<400> 600

10004300-120701

Arg Glu Ala Gly Gln Asn Ser Glu Arg Gln Tyr Val Ser Leu Ser Arg
 1 5 10 15

Asp

<210> 601
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 601
 Cys Cys Cys Val Ser Lys Asp Gln Gly Ile Met Gly Pro Gly Phe Arg
 1 5 10 15

<210> 602
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 602
 His Ser Val Thr Glu Leu Gln Thr Pro Ala Leu Ser Leu Ile Ser Ala
 1 5 10 15

Met Leu Pro Pro Ser Cys Leu Ser Glu Leu Leu Val Tyr Ser Ile Leu
 20 25 30

Cys Asp Thr Ser Gln Val Ala His Asn Leu Leu Arg Ala Pro Glu Asp
 35 40 45

Ser Leu Thr Gly Cys Cys Asp Asp Ile Gln Cys Pro Ser Ala Pro Phe
 50 55 60

His Pro Gln Pro His Leu Thr Val Ala Leu His Leu Cys Pro Val Val
 65 70 75 80

Ile Tyr Val Asn Leu Gln Val Leu Asn Leu Leu His Ile Leu Thr Tyr
 85 90 95

Leu Glu Ile Leu His Val Leu
 100

<210> 603
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 603
 Leu Leu Val Tyr Ser Ile Leu Cys Asp Thr Ser Gln Val Ala His Asn
 1 5 10 15

Leu Leu Arg Ala Pro Glu Asp Ser

10004950-120701

20

<210> 604
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 604
 Leu Thr Val Ala Leu His Leu Cys Pro Val Val Ile Tyr Val Asn Leu
 1 5 10 15

Gln Val Leu Asn Leu Leu His Ile Leu Thr.
 20 25

<210> 605
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 605
 Phe Phe Asn Ala Leu Tyr Val Phe Arg Lys Pro Gln Ala Ile Phe Asp
 1 5 10 15

Ser Glu Lys Glu Asn Lys Arg Lys Asn Pro Thr Lys Tyr Asn Asn Pro
 20 25 30

Leu Arg Tyr Ile Tyr Phe Lys Val Lys Leu Ile Phe Gln Phe Ile Pro
 35 40 45

Leu Ala Asn Tyr Lys Ile Lys
 50 55

<210> 606
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 606
 Glu Ser Ser Gly Gln Ala Arg Thr Leu Ala Asp Pro Gly Pro Gly Trp
 1 5 10 15

Pro Arg Gln Gln Gly Met Cys Phe Gly Ser Leu Thr Gly Leu Ser Thr
 20 25 30

Thr Pro His Gly Phe Leu Thr Val Ser Ala Glu Ala Asp Pro Arg Leu
 35 40 45

Ile Glu Ser Leu Ser Gln Met Leu Ser Met Gly Phe Ser Asp Glu Gly
 50 55 60

Gly Trp Leu Thr Arg Leu Leu Gln Thr Lys Asn Tyr Asp Ile Gly Ala
 65 70 75 80

Ala Leu Asp Thr Ile Gln Tyr Ser Lys His
 85 90

10004850-100000

<210> 607
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 607
 Tyr Ser Met Val Tyr Ile Tyr His Ile Phe Phe Ile His Ser Leu Leu
 1 5 10 15
 Asp Gly Gln Leu Gly Trp Phe His Ile Phe Ala Ile Val Ser Cys Ala
 20 25 30
 Ala Pro Asp Ile Ile Phe Asn Ser Phe Ala Phe Ser Thr Tyr Ile Ser
 35 40 45
 Lys Ser Cys Ser Phe Tyr Leu Gln Asn Val Ser Cys Ile His Ser Ser
 50 55 60
 Leu Ser Ile Phe Asn Leu Phe Gln Cys Pro Ile Ile Ser Cys Met Glu
 65 70 75 80
 Glu Cys Asn Asn Trp Leu Thr Gly Leu Phe Leu His Phe Lys Ile Lys
 85 90 95
 Arg Cys Asp Arg
 100

<210> 608
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 608
 Leu Ser Pro Ser Pro Arg Cys Cys Pro Trp Ala Ser Leu Met Lys Ala
 1 5 10 15
 Ala Gly Ser Pro Gly Ser Cys Arg Pro Arg Thr Met Thr Ser Glu Arg
 20 25 30
 Leu Trp Thr Pro Ser Ser Ile Gln Ser Ile Pro Arg Arg Cys Asp His
 35 40 45
 Phe Cys Pro Pro Leu Leu Arg Ala Pro Leu Leu Ser His Ser Cys Val
 50 55 60
 Lys Leu Ala
 65

<210> 609
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 609

10004850-120701

Gly Trp Pro Arg Gln Gln Gly Met Cys Phe Gly Ser Leu Thr Gly Leu
1 .5 10 15

Ser Thr Thr Pro His Gly Phe Leu Thr Val Ser Ala Glu Ala Asp Pro
20 25 30

Arg Leu

<210> 610

<211> 33

<212> PRT

<213> Homo sapiens

<400> 610

Leu Gly Trp Phe His Ile Phe Ala Ile Val Ser Cys Ala Ala Pro Asp
1 5 10 15

Ile Ile Phe Asn Ser Phe Ala Phe Ser Thr Tyr Ile Ser Lys Ser Cys
20 25 30

Ser

<210> 611

<211> 25

<212> PRT

<213> Homo sapiens

<400> 611

Ser Leu Ser Ile Phe Asn Leu Phe Gln Cys Pro Ile Ile Ser Cys Met
1 5 10 15

Glu Glu Cys Asn Asn Trp Leu Thr Gly
20 25

<210> 612

<211> 30

<212> PRT

<213> Homo sapiens

<400> 612

Leu Met Lys Ala Ala Gly Ser Pro Gly Ser Cys Arg Pro Arg Thr Met
1 5 10 15

Thr Ser Glu Arg Leu Trp Thr Pro Ser Ser Ile Gln Ser Ile
20 25 30

<210> 613

<211> 152

<212> PRT

<213> Homo sapiens

<220>

10004860-120701

<221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 613
 Ser Ser Ser Ser Pro Arg Arg Pro Arg Glu Leu Leu Gly Ser Leu Lys
 1 5 10 15
 Thr Pro Leu Val Arg Pro His Ser Ala Pro Leu Asp Leu Pro Gly Ser
 20 25 30
 Phe Cys Xaa His Thr Ala Asp Pro Met Gly Ala Leu His Thr Arg Phe
 35 40 45
 Trp Gly Arg Gln Thr Trp Ile His Arg Lys Leu Arg Leu His Gly Thr
 50 55 60
 Ser Arg Leu Ala Ser Lys Xaa Gly Ile Gln Phe Leu Arg Asn Pro Ser
 65 70 75 80
 Lys Thr His Thr Pro Arg Asp Ala Ala Phe Arg Asp Pro Gly Gln Thr
 85 90 95
 Pro Asp Pro Gln Ser Leu Gln Ala Pro Ser Pro Ser Lys Cys Ser Ala
 100 105 110
 Pro Asn Arg Ala Thr Ser Val Trp Ser Leu Lys Pro Arg Leu Leu Tyr
 115 120 125
 Lys His Arg Pro Ser Ser Asp Lys Thr Pro Pro Pro Gly Arg Gln Ala
 130 135 140
 Pro Leu Leu Phe Phe Ser Ala Gly
 145 150

<210> 614
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 614
 Phe Leu Arg Asn Pro Ser Lys Thr His Thr Pro Arg Asp Ala Ala Phe
 1 5 10 15
 Arg Asp Pro Gly Gln Thr Pro Asp Pro Gln Ser Leu Gln Ala
 20 25 30

<210> 615
 <211> 159
 <212> PRT
 <213> Homo sapiens

10004360-120701

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (155)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 615
 Gln Glu Gly Ser Glu Pro Val Leu Leu Glu Gly Glu Cys Leu Val Val
 1 5 10 15
 Cys Glu Pro Gly Arg Ala Ala Ala Gly Gly Pro Gly Gly Ala Ala Leu
 20 25 30
 Gly Glu Ala Pro Pro Gly Arg Val Ala Phe Xaa Ala Val Arg Ser His
 35 40 45
 His His Glu Pro Ala Gly Glu Thr Gly Asn Gly Thr Ser Gly Ala Ile
 50 55 60
 Tyr Phe Asp Gln Val Leu Val Asn Glu Gly Gly Gly Phe Asp Arg Ala
 65 70 75 80
 Ser Gly Ser Phe Val Ala Pro Val Arg Gly Val Tyr Ser Phe Arg Phe
 85 90 95
 His Val Val Lys Val Tyr Asn Arg Gln Thr Val Gln Val Ser Leu Met
 100 105 110
 Leu Asn Thr Trp Pro Val Ile Ser Ala Phe Ala Asn Asp Pro Asp Val
 115 120 125
 Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu Pro Leu Asp Pro Gly
 130 135 140
 Asp Arg Val Ser Leu Arg Leu Arg Arg Gly Xaa Ser Thr Gly Trp
 145 150 155

<210> 616
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 616
 Gly Glu Thr Gly Asn Gly Thr Ser Gly Ala Ile Tyr Phe Asp Gln Val
 1 5 10 15
 Leu Val Asn Glu Gly Gly Gly Phe Asp Arg Ala Ser Gly Ser Phe Val
 20 25 30
 Ala Pro Val
 35

10004860-120701

<210> 617
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 617
 Asn Asp Pro Asp Val Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu
 1 5 10 15
 Pro Leu Asp Pro Gly Asp Arg Val Ser
 20 25

<210> 618
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 618
 Phe His Val Val Lys Val Tyr Asn Arg Gln Thr
 1 5 10

<210> 619
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 619
 Ile Tyr Phe Asp Gln Val Leu Val Asn
 1 5

<210> 620
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 620
 Glu Ser Arg Glu Arg Ser Gly Asn Arg Arg Gly Ala Glu Asp Arg Gly
 1 5 10 15
 Thr Cys Gly Leu Gln Ser Pro Ser Ala
 20 25

<210> 621
 <211> 70
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>

100044860-120701

> SITE
 > (31)
 > Xaa equals any of the naturally occurring L-amino acids

>
 > SITE
 > (34)
 > Xaa equals any of the naturally occurring L-amino acids

>
 > SITE
 > (37)
 > Xaa equals any of the naturally occurring L-amino acids

> 621

Met Pro Gln Phe Tyr Phe Phe Leu Lys Leu Gly Cys Leu Ala Gln
 5 10 15

Pro Met Gln Arg Gly Gly Ile Gly Ala Arg Gly Ser Xaa Xaa Pro
 20 25 30

Xaa Ala Val Xaa Gly Ala Arg Glu Gly Arg Arg Lys Leu Ser Gly
 35 40 45

Gly Phe Leu Cys Leu Lys Asp Leu Gly Pro Ser Glu Arg Glu Asp
 50 55 60

Glu Ala Arg Glu Thr
 70

.0> 622

.1> 27

.2> PRT

.3> Homo sapiens

.00> 622

: Pro Gln Phe Tyr Phe Phe Leu Lys Leu Gly Cys Leu Ala Gln Val
 1 5 10 15

: Met Gln Arg Gly Gly Ile Gly Ala Arg Gly
 20 25

10> 623

11> 185

12> PRT

13> Homo sapiens

.00> 623

.n Ala Thr Cys Ser Ala Ser Gly Ser Pro Gly Gln Phe Gly Gly Cys
 1 5 10 15

ir Pro Ser Pro His Gly Thr Gly Ser Cys Arg His Pro Gly Gln Gly
 20 25 30

au Arg Arg Ser Gln Arg Pro Gly Gln Ser His Arg Pro Arg Ser Pro
 35 40 45

10004860 120701

Gly Pro Gly Arg Ser Arg Trp Pro His Trp Cys His Cys Arg Phe Pro
50 55 60

Leu Leu Ala His Gly Gly Gly Phe Gly Pro Gln Gln Met Pro Leu Ala
65 70 75 80

Gln Gly Val Pro Leu Pro Gly Leu Leu Pro Arg Ala Pro Leu Gln Gln
85 90 95

Leu Gly Gln Ala His Arg Pro Pro Gly Thr Pro Pro Pro Ala Gly Arg
100 105 110

Ala Leu Thr Pro Pro Gly Pro Thr Arg Pro Pro Gly Pro Glu Ala Pro
115 120 125

Glu Pro Arg Ala Ala Arg Asp Cys Val Gly Asp Leu Val Ala Ser Val
130 135 140

Ala Trp Leu Pro Thr Trp Leu Arg Gly Ser Ala Thr His Lys Cys Pro
145 150 155 160

Gly Leu Leu Pro Leu Phe Cys Phe Arg Ser Ser Pro Trp Ile Leu Thr
165 170 175

Ala Gly Thr Leu Ile Val Cys Pro Leu
180 185

<210> 624

<211> 25

<212> PRT

<213> Homo sapiens

<400> 624

Gly Cys Thr Pro Ser Pro His Gly Thr Gly Ser Cys Arg His Pro Gly
1 5 10 15

Gln Gly Leu Arg Arg Ser Gln Arg Pro
20 25

<210> 625

<211> 26

<212> PRT

<213> Homo sapiens

<400> 625

Ser Arg Trp Pro His Trp Cys His Cys Arg Phe Pro Leu Leu Ala His
1 5 10 15

Gly Gly Gly Phe Gly Pro Gln Gln Met Pro
20 25

<210> 626

<211> 28

<212> PRT

10/02/01 09:00:01

<213> Homo sapiens

<400> 626

Asp Cys Val Gly Asp Leu Val Ala Ser Val Ala Trp Leu Pro Thr Trp
1 5 10 15

Leu Arg Gly Ser Ala Thr His Lys Cys Pro Gly Leu
20 25

<210> 627

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 627

Asp Asp Arg Pro Arg Val Gln His Gln Ala His Leu Asp Ser Leu Ala
1 5 10 15

Val Val His Leu His His Met Glu Pro Glu Ala Val Asp Thr Pro Asp
20 25 30

Arg Gly Tyr Glu Gly Ala Arg Gly Pro Val Lys Ala Thr Ala Leu Val
35 40 45

His Gln Asp Leu Val Glu Val Asp Gly Pro Thr Gly Ala Ile Ala Gly
50 55 60

Phe Pro Cys Trp Leu Met Val Val Ala Ser Asp Arg Xaa Lys Cys His
65 70 75 80

Ser Pro Arg Gly Cys Leu Ser Gln Gly Cys Ser Pro Gly Pro Pro Cys
85 90 95

Ser Ser Ser Ala Arg Leu Thr Asp His Gln Ala Leu Pro Leu Gln Gln
100 105 110

Asp Gly Leu
115

<210> 628

<211> 31

<212> PRT

<213> Homo sapiens

<400> 628

Tyr Glu Gly Ala Arg Gly Pro Val Lys Ala Thr Ala Leu Val His Gln
1 5 10 15

Asp Leu Val Glu Val Asp Gly Pro Thr Gly Ala Ile Ala Gly Phe
20 25 30

10004560 "120701

<210> 629
 <211> 159
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 629
 Met Ala Pro Leu Val Pro Leu Pro Val Ser Pro Ala Gly Ser Trp Trp
 1 5 10 15

 Trp Leu Arg Thr Ala Xaa Asn Ala Thr Arg Pro Gly Gly Ala Ser Pro
 20 25 30

 Arg Ala Ala Pro Pro Gly Pro Pro Ala Ala Ala Arg Pro Gly Ser Gln
 35 40 45

 Thr Thr Arg His Ser Pro Ser Ser Arg Thr Gly Ser Asp Pro Ser Trp
 50 55 60

 Ala His Pro Ala Pro Arg Ala Arg Ser Thr Arg Thr Lys Gly Ser Pro
 65 70 75 80

 Gly Leu Cys Arg Gly Pro Gly Ser Gln Cys Gly Leu Ala Pro Asn Met
 85 90 95

 Ala Glu Gly Leu Cys Asn Pro Gln Val Pro Arg Ser Ser Ala Pro Leu
 100 105 110

 Leu Phe Pro Leu Leu Ser Leu Asp Ser His Arg Arg His Pro Asp Ser
 115 120 125

 Leu Pro Ser Leu Gly Ser Leu Asn Pro Leu Ser Ile Pro Val Ser Gln
 130 135 140

 Leu Cys Pro Ala Ser His Ser Tyr Ser Cys Cys His Cys Ser Ser
 145 150 155

<210> 630
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 630
 Ser Ser Arg Thr Gly Ser Asp Pro Ser Trp Ala His Pro Ala Pro Arg
 1 5 10 15

 Ala Arg Ser Thr Arg Thr Lys Gly Ser Pro Gly Leu Cys
 20 25

<210> 631
 <211> 27

10004560.120701

<212> PRT
 <213> Homo sapiens

<400> 631
 Arg Arg His Pro Asp Ser Leu Pro Ser Leu Gly Ser Leu Asn Pro Leu
 1 5 10 15
 Ser Ile Pro Val Ser Gln Leu Cys Pro Ala Ser
 20 25

<210> 632
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 632
 Ser Thr His Ala Ser Gly Pro Pro Ala Pro Glu Arg Leu Cys Leu Pro
 1 5 10 15
 Glu Arg Gly Thr Ala Pro Trp Gly Arg Arg Ala Asn Asp Ala Ala
 20 25 30

<210> 633
 <211> 181
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (165)
 <223> Xaa equals any of the naturally occurring L-amino acids

10004560-12001

<400> 633

Val Arg Arg Trp Trp Leu Arg Thr Met Gly Ala Ala Ala His Cys Thr
 1 5 10 15

Pro Glu Gln Arg Arg Pro Arg Arg Pro Ala Thr Ile Leu Gly Met Asp
 20 25 30

Thr Gln Asn Ile Leu His Thr Arg Leu Ser Leu Cys Ser Leu Ser Trp
 35 40 45

Val Ser Leu Ala Ser Ser Phe Xaa Xaa Leu Ala Xaa Arg Arg Lys Ala
 50 55 60

Ile Val Val Gln Gln Lys Gln Ser Lys Ile Ser Lys Lys Lys Lys Val
 65 70 75 80

Glu Lys Xaa Xaa Leu Asn Asp Ser Val Asn Glu Asn Ser Asp Thr Val
 85 90 95

Gly Gln Ile Val His Tyr Ile Met Lys Asn Glu Ala Asn Ala Asp Val
 100 105 110

Leu Lys Ala Met Val Ala Asp Asn Ser Leu Tyr Asp Pro Glu Ser Pro
 115 120 125

Val Thr Pro Ser Thr Pro Gly Ser Pro Pro Val Ser Pro Gly Leu Cys
 130 135 140

His Gln Gly Gly Arg Gln Gly Ser Thr Ser Val Ala Ile Ile Cys Ile
 145 150 155 160

Arg Trp Ala Val Xaa Ser Arg Gly Met Cys Val Ile Gly Val Gly Thr
 165 170 175

Ser Gly Gly Thr Leu
 180

<210> 634

<211> 29

<212> PRT

<213> Homo sapiens

<400> 634

Ile Met Lys Asn Glu Ala Asn Ala Asp Val Leu Lys Ala Met Val Ala
 1 5 10 15

Asp Asn Ser Leu Tyr Asp Pro Glu Ser Pro Val Thr Pro
 20 25

<210> 635

<211> 143

<212> PRT

<213> Homo sapiens

<220>

10004660-120701

<222> (77)

<400> 635

Gly Gly Leu Thr Arg Asp Ala Ala Gln Gln His Val Thr Lys Ser Tyr
20 25 30

Pro Val Leu Trp Pro Glu Tyr Thr Phe Trp Asn Leu Phe Glu Ala Ile
50 55 60

His Val Cys Arg Gly Ala Glu Glu Ala Ala Ala Gly Glu Gly Pro Gly
85 90 95

Tyr Ser Asp Arg Ala Ala Ala Ala Arg Gly Ala Pro Ser Gln Trp Gly
 . 100 105 110 .

Arg Pro Ala Pro Lys Asp Thr Leu Ala Gln Thr Leu Gly Gln Thr Gly
115 120 125

Arg Ala Ser Pro Arg Leu Pro Ala Gly Leu Gly Thr Gln Ala Ser
130 135 140

<210> 636

<211> 28

<212> PRT

<213> Homo sapiens

<400> 636

Pro Ala Pro Lys Asp Thr Leu Ala Gln Thr Leu Gly Gln Thr Gly Arg
1 5 10 15

Ala Ser Pro Arg Leu Pro Ala Gly Leu Gly Thr Gln
20 25

<210> 637

<211> 85

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 637

Thr Ile Ala Cys Phe Ser Xaa Lys Ala Arg Asp Met Tyr Ala Glu Glu

1 5 10 15
 Arg Lys Arg Gln Gln Leu Glu Arg Asp Gln Ala Thr Val Thr Glu Gln
 20 25 30
 Leu Leu Arg Glu Gly Leu Gln Ala Ser Gly Asp Ala Gln Leu Arg Arg
 35 40 45
 Thr Arg Leu His Lys Leu Ser Ala Arg Arg Glu Glu Arg Val Gln Gly
 50 55 60
 Phe Leu Gln Ala Leu Glu Leu Lys Arg Ala Asp Trp Leu Ala Arg Leu
 65 70 75 80
 Gly Thr Ala Ser Ala
 85

<210> 638
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 638
 Leu Arg Arg Thr Arg Leu His Lys Leu Ser Ala Arg Arg Glu Glu Arg
 1 5 10 15
 Val Gln Gly Phe Leu Gln Ala Leu Glu Leu Lys Arg
 20 25

<210> 639
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 639
 Lys Met Asn Ser Ile Pro Trp Gln Ile Pro Lys Ile Thr Pro Xaa Leu
 1 5 10 15
 Asp Ala Asn Leu Val Ile Val Glu Cys Lys Pro Leu Trp Phe Cys Ile
 20 25 30
 Gly Thr Ile Lys Gln Leu Lys Leu Trp Asn Gln Val Phe Met Gly Phe
 35 40 45
 Lys Ser Met Phe Phe Arg Ile Gly Lys Leu Asn Tyr Leu Phe Thr Ile
 50 55 60
 Pro Tyr Cys Tyr Leu Phe Ile Asp Asn Ile Leu Gly Ile Phe Tyr Ser
 65 70 75 80
 Ile Leu Gly Ala Gln Gly Ile Lys Tyr Asn Phe Tyr Ile Gln Arg Ile

10004860-120701

85

90

95

Phe Thr Cys Leu Leu Asn Leu Asn Leu Lys Ile His Ser Asn Leu Ala
 100 105 110

<210> 640

<211> 27

<212> PRT

<213> Homo sapiens

<400> 640

Leu Trp Phe Cys Ile Gly Thr Ile Lys Gln Leu Lys Leu Trp Asn Gln
 1 5 10 15

Val Phe Met Gly Phe Lys Ser Met Phe Phe Arg
 20 25

<210> 641

<211> 26

<212> PRT

<213> Homo sapiens

<400> 641

Tyr Ser Ile Leu Gly Ala Gln Gly Ile Lys Tyr Asn Phe Tyr Ile Gln
 1 5 10 15

Arg Ile Phe Thr Cys Leu Leu Asn Leu Asn
 20 25

<210> 642

<211> 9

<212> PRT

<213> Homo sapiens

<400> 642

Thr Phe Lys Leu Val Arg Phe Leu Glu
 1 5

<210> 643

<211> 32

<212> PRT

<213> Homo sapiens

<400> 643

Pro Arg Ser Arg Pro Ala Leu Arg Pro Gly Arg Gln Arg Pro Pro Ser
 1 5 10 15

His Ser Ala Thr Ser Gly Val Leu Arg Pro Arg Lys Lys Pro Asp Pro
 20 25 30

10004860 "100701

<210> 644
 <211> 120
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 644
 Arg Lys Ser Phe Ala Lys Pro Val Leu Trp Thr Asn Ala Ile Gln Ala
 1 5 10 15
 Gly Arg Gly Arg Val Leu Cys Tyr Thr Arg Pro Pro Pro Ala Ser Ser
 20 25 30
 Ser Phe Ser Ala Leu Val Pro Asp Gly Asn Arg Met Glu Gly Leu Arg
 35 40 45
 Thr Tyr Phe Leu Asn Ala Phe Asp Pro Gly Thr Asp Tyr Leu Tyr Leu
 50 55 60
 Phe Pro Phe Ser Phe Thr Val Thr Phe Gln His Cys Leu Thr Val Arg
 65 70 75 80
 Trp Ala Phe Glu Ser Leu Gln Val Pro Gln Asn Arg Pro Glu Arg Trp
 85 90 95
 Ala Ser His Pro Leu Pro Thr His Xaa Pro Ala Tyr Leu Pro Asp Asn
 100 105 110
 Gln Val Xaa Met Ser Ala Ser Gly
 115 120

<210> 645
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 645
 Gly Asn Arg Met Glu Gly Leu Arg Thr Tyr Phe Leu Asn Ala Phe Asp
 1 5 10 15
 Pro Gly Thr Asp Tyr Leu Tyr Leu Phe
 20 25

<210> 646

10004860-120704

<211> 30
 <212> PRT
 <213> Homo sapiens

<400> 646
 Phe Gln His Cys Leu Thr Val Arg Trp Ala Phe Glu Ser Leu Gln Val
 1 5 10 15

Pro Gln Asn Arg Pro Glu Arg Trp Ala Ser His Pro Leu Pro
 20 25 30

<210> 647
 <211> 31
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 647
 Met Thr Leu Ile Thr Pro Ser Xaa Lys Leu Thr Phe Xaa Lys Gly Asn
 1 5 10 15

Lys Ser Trp Ser Ser Arg Ala Cys Ser Ser Thr Leu Val Asp Pro
 20 25 30

<210> 648
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 648
 Phe Leu Phe Leu His Ala Val Asp Pro Trp Pro Ser Asn Gly
 1 5 10

<210> 649
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 649
 Trp Ser Cys Gln Ser Gly Val Phe Leu Val Phe Thr Gly Cys Ser Val
 1 5 10 15

Leu Cys Gln Met Leu Ser Gly Ala Val Val Val Trp Arg Arg Ser Ala
 20 25 30

Pro Glu Asp Ser Ala Val Trp Gln Ala Ser Ile Asn Lys Pro Arg Gly

10004860-120701

35

40

45

Lys Gly Arg His Gly Ile Lys Gly Glu Asn Thr Ser Val
 50 55 60

<210> 650

<211> 35

<212> PRT

<213> Homo sapiens

<400> 650

Leu Val Phe Thr Gly Cys Ser Val Leu Cys Gln Met Leu Ser Gly Ala
 1 5 10 15

Val Val Val Trp Arg Arg Ser Ala Pro Glu Asp Ser Ala Val Trp Gln
 20 25 30

Ala Ser Ile
 35

<210> 651

<211> 51

<212> PRT

<213> Homo sapiens

<400> 651

Gly His Pro Ser Pro Ala Leu Ser Ile Ala Pro Ser Asp Gly Ser Gln
 1 5 10 15

Leu Pro Cys Asp Glu Val Pro Tyr Gly Glu Ala His Val Thr Arg Tyr
 20 25 30

Cys Lys Lys Pro Leu Thr Asn Ser His Leu Glu Thr Glu Ala Gln Ser
 35 40 45

Ser Ser Leu
 50

<210> 652

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 652

Asn Asn Lys His Tyr Leu Ser Phe Cys Gly Ser Gly Phe Cys Pro Val

10004850.120701

1 5 10 15
 Tyr Leu Gly Phe Thr Gly Leu Ala Ser His Gln Ala Val Lys Val Leu
 20 25 30
 Val Val Ala Val Ile Ile Pro Arg Gln Asp Arg Glu Arg Ile Cys Leu
 35 40 45
 Gln Ala Gln Val Gly Arg Ile His Leu Arg Gly Cys Trp Thr Gly Pro
 50 55 60
 Pro Phe Leu Asp Gly Tyr Trp Ser Glu Ala Phe Tyr Asn Thr Leu Ser
 65 70 75 80
 Arg Gly Pro Leu His Arg Ala Pro His His Met Ala Thr Gly Phe His
 85 90 95
 Gln Arg Glu Gln Trp Lys Glu Gln Glu Lys Gly Asp Gln Gly Arg His
 100 105 110
 Arg Ser Leu Leu Val Ala Ser Pro Gln Lys Arg Cys Tyr Phe Cys Cys
 115 120 125
 Ile Leu Xaa Val Arg Ser Glu Ser Leu Gly Pro Gly Val Glu Phe Tyr
 130 135 140
 Xaa Gly Val Asn Gly Arg Arg
 145 150

<210> 653
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 653
 Glu Arg Ile Cys Leu Gln Ala Gln Val Gly Arg Ile His Leu Arg Gly
 1 5 10 15
 Cys Trp Thr Gly Pro Pro Phe Leu Asp Gly Tyr Trp Ser Glu Ala Phe
 20 25 30

<210> 654
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 654
 Ser Asp Gly Ser Gln Leu Pro Cys Asp Glu Val Pro Tyr Gly Glu Ala
 1 5 10 15

His Val Thr Arg Tyr Cys Lys Lys Pro Leu
 20 25

10004860-120701

<210> 655
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 655
 His Gln Arg Glu Gln Trp Lys Glu Gln Glu Lys Gly Asp Gln Gly Arg
 1 5 10 15
 His Arg Ser Leu Leu Val Ala Ser Pro Gln Lys
 20 25

<210> 656
 <211> 263
 <212> DNA
 <213> Homo sapiens

<400> 656
 GCTTCGTGTC CAACCCCTCTT GCCCTTCGCC TGTGTGCCTG GAGCCAGTCC CACCACGCTC 60
 GCGTTTCCTC CTGTAGTGCT CACAGGTCCC AGCACCGATG GCATTCCCTT TGCCCTGAGT 120
 CTGCAGCGGG TCCCTTTTGT GCTTCCTTCC CCTCAGGTAG CCTCTCTCCC CCTGGGCCAC 180
 TCCCGGGGGT GAGGGGGTTA CCCCTTCCCA GTGTTTTTTA TTCCTGTGGG GCTCACCCCA 240
 AAGTATTAAA AGTAGCTTTG TAA 263

<210> 657
 <211> 263
 <212> DNA
 <213> Homo sapiens

<400> 657
 GCTTCGTGTC CAACCCCTCTT GCCCTTCGCC TGTGTGCCTG GAGCCAGTCC CACCACGCTC 60
 GCGTTTCCTC CTGTAGTGCT CACAGGTCCC AGCACCGATG GCATTCCCTT TGCCCTGAGT 120
 CTGCAGCGGG TCCCTTTTGT GCTTCCTTCC CCTCAGGTAG CCTCTCTCCC CCTGGGCCAC 180
 TCCCGGGGGT GAGGGGGTTA CCCCTTCCCA GTGTTTTTTA TTCCTGTGGG GCTCACCCCA 240
 AAGTATTAAA AGTAGCTTTG TAA 263

<210> 658
 <211> 263
 <212> DNA
 <213> Homo sapiens

<400> 658
 GCTTCGTGTC CAACCCCTCTT GCCCTTCGCC TGTGTGCCTG GAGCCAGTCC CACCACGCTC 60

10004560-120701

GCGTTTCCTC CTGTAGTGCT CACAGGTCCC AGCACCGATG GCATTCCCTT TGCCCTGAGT 120
 CTGCAGCGGG TCCCTTTTGT GCTTCCTTCC CCTCAGGTAG CCTCTCTCCC CCTGGGCCAC 180
 TCCCGGGGGT GAGGGGGTTA CCCCTTCCCA GTGTTTTTTA TTCCTGTGGG GCTCACCCCA 240
 AAGTATTAAA AGTAGCTTTG TAA 263

<210> 659
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 659
 Phe Arg Ile Asn Arg Leu Thr Ile Gly Xaa Ala Val Ala Met Thr Arg
 1 5 10 15
 Gly Asn Gln Arg Glu Leu Ala Arg Gln Lys Asn Met Lys Lys Gln Ser
 20 25 30
 Asp Ser Val Lys Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Ala
 35 40 45
 Arg Lys Gln Arg Asp Ser Glu Ile
 50 55

<210> 660
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 660
 Ala Val Ala Met Thr Arg Gly Asn Gln Arg Glu Leu Ala Arg Gln Lys
 1 5 10 15
 Asn Met Lys Lys Gln Ser Asp Ser Val Lys Gly Lys Arg
 20 25

<210> 661
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 661
 Lys Ser Arg Ala Thr Arg Leu Arg Glu Ser Ala Glu Met Thr Gly Phe
 1 5 10 15
 Leu Leu Pro Pro Ala Ser Arg Gly Thr Arg Arg Ser Cys Ser Arg Ser
 20 25 30

10004860.120701

Arg Lys Arg Gln Thr Arg Arg Arg Arg Asn Pro Ser Ser Phe Val Ala
35 40 45

Ser Cys Pro Thr Leu Leu Pro Phe Ala Cys Val Pro Gly Ala Ser Pro
50 55 60

Thr Thr Leu Ala Phe Pro Pro Val Val Leu Thr Gly Pro Ser Thr Asp
65 70 75 80

Gly Ile Pro Phe Ala Leu Ser Leu Gln Arg Val Pro Phe Val Leu Pro
85 90 95

Ser Pro Gln Val Ala Ser Leu Pro Leu Gly His Ser Arg Gly
100 105 110

<210> 662

<211> 26

<212> PRT

<213> Homo sapiens

<400> 662

Leu Arg Glu Ser Ala Glu Met Thr Gly Phe Leu Leu Pro Pro Ala Ser
1 5 10 15

Arg Gly Thr Arg Arg Ser Cys Ser Arg Ser
20 25

<210> 663

<211> 30

<212> PRT

<213> Homo sapiens

<400> 663

Val Val Leu Thr Gly Pro Ser Thr Asp Gly Ile Pro Phe Ala Leu Ser
1 5 10 15

Leu Gln Arg Val Pro Phe Val Leu Pro Ser Pro Gln Val Ala
20 25 30

<210> 664

<211> 59

<212> PRT

<213> Homo sapiens

<400> 664

Leu Leu Ser Thr Ser His Leu Leu Thr Gln Ser Tyr Ser Phe Asn Lys
1 5 10 15

Arg Ser His Ser Phe Ala Trp Lys Asn Ala His Cys Ile Leu Gln Ser
20 25 30

Glu Asn Asn Glu Leu Gln Asn Ser Val Tyr Ile Tyr Val Cys Ile Tyr
35 40 45

10004860.120701

Val His Phe Ile Cys Thr Phe Leu Cys Asp Ile
50 55

<210> 665
<211> 32
<212> PRT
<213> Homo sapiens

<400> 665
Lys Arg Ser His Ser Phe Ala Trp Lys Asn Ala His Cys Ile Leu Gln
1 5 10 15

Ser Glu Asn Asn Glu Leu Gln Asn Ser Val Tyr Ile Tyr Val Cys Ile
20 25 30

<210> 666
<211> 160
<212> DNA
<213> Homo sapiens

<400> 666
TGGCTCACTG TCTTACAATC ACTGCTGTGG AATCATGATA CCACTTTTAG CTCTTGCAT 60
CTTCCTTCAG TGTATTTTGG TTTTCAAGA GGAAGTAGAT TTAACTGGA CAACTTTGAG 120
TACTGACATC ATTGATAAAT AAAGTGGCTT GTGGTTTCAA 160

<210> 667
<211> 292
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 667
Leu Asp Glu Leu Met Ala His Leu Thr Glu Met Gln Ala Lys Val Ala
1 5 10 15
Val Arg Ala Asp Ala Gly Lys Lys His Leu Pro Asp Lys Gln Asp His
20 25 30
Lys Ala Ser Leu Asp Ser Met Leu Gly Gly Leu Glu Gln Glu Leu Gln
35 40 45
Asp Leu Gly Ile Ala Thr Val Pro Lys Gly His Cys Ala Ser Cys Gln
50 55 60
Lys Pro Ile Ala Gly Lys Val Ile His Ala Leu Gly Gln Ser Trp His

10004360-120701

65 70 75 80

Pro Glu His Phe Val Cys Thr His Cys Lys Glu Glu Ile Gly Ser Ser
85 90 95

Pro Phe Phe Glu Arg Ser Gly Leu Xaa Tyr Cys Pro Asn Asp Tyr His
100 105 110

Gln Leu Phe Ser Pro Arg Cys Ala Tyr Cys Ala Ala Pro Ile Leu Asp
115 120 125

Lys Val Leu Thr Ala Met Asn Gln Thr Trp His Pro Glu His Phe Phe
130 135 140

Cys Ser His Cys Gly Glu Val Phe Gly Ala Glu Gly Phe His Glu Lys
145 150 155 160

Asp Lys Lys Pro Tyr Cys Arg Lys Asp Phe Leu Ala Met Phe Ser Pro
165 170 175

Lys Cys Gly Gly Cys Asn Arg Pro Val Leu Glu Asn Tyr Leu Ser Ala
180 185 190

Met Asp Thr Val Trp His Pro Glu Cys Phe Val Cys Gly Asp Cys Phe
195 200 205

Thr Ser Phe Ser Thr Gly Ser Phe Phe Glu Leu Asp Gly Arg Pro Phe
210 215 220

Cys Glu Leu His Tyr His His Arg Arg Gly Thr Leu Cys His Gly Cys
225 230 235 240

Gly Gln Pro Ile Thr Gly Arg Cys Ile Ser Ala Met Gly Tyr Lys Phe
245 250 255

His Pro Glu His Phe Val Cys Ala Phe Cys Leu Thr Gln Leu Ser Lys
260 265 270

Gly Ile Phe Arg Glu Gln Asn Asp Lys Thr Tyr Cys Gln Pro Cys Phe
275 280 285

Asn Lys Leu Phe
290

<210> 668

<211> 43

<212> PRT

<213> Homo sapiens

<400> 668

Lys Ala Ser Leu Asp Ser Met Leu Gly Gly Leu Glu Gln Glu Leu Gln
1 5 10 15

Asp Leu Gly Ile Ala Thr Val Pro Lys Gly His Cys Ala Ser Cys Gln
20 25 30

Lys Pro Ile Ala Gly Lys Val Ile His Ala Leu

10004560-120001

35

40

<210> 669
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 669
 Cys Pro Asn Asp Tyr His Gln Leu Phe Ser Pro Arg Cys Ala Tyr Cys
 1 5 10 15
 Ala Ala Pro Ile Leu Asp Lys Val Leu Thr Ala Met Asn Gln Thr Trp
 20 25 30
 His Pro Glu His Phe Phe Cys Ser His Cys Gly Glu Val Phe Gly Ala
 35 40 45
 Glu Gly
 50

<210> 670
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 670
 Asp Lys Lys Pro Tyr Cys Arg Lys Asp Phe Leu Ala Met Phe Ser Pro
 1 5 10 15
 Lys Cys Gly Gly Cys Asn Arg Pro Val Leu Glu Asn Tyr Leu Ser Ala
 20 25 30
 Met Asp Thr Val Trp His Pro Glu Cys Phe Val Cys Gly Asp Cys Phe
 35 40 45
 Thr Ser Phe Ser Thr Gly Ser Phe Phe Glu Leu Asp Gly Arg Pro Phe
 50 55 60
 Cys Glu Leu
 65

<210> 671
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 671
 Cys Gly Gln Pro Ile Thr Gly Arg Cys Ile Ser Ala Met Gly Tyr Lys
 1 5 10 15
 Phe His Pro Glu His Phe Val Cys Ala Phe Cys Leu Thr Gln Leu Ser
 20 25 30
 Lys Gly Ile Phe Arg Glu Gln Asn Asp Lys Thr Tyr Cys Gln
 35 40 45

10004260.120701

210 215 220

Val Leu Glu Asn Tyr Leu Ser Ala Met Asp Thr Val Trp His Pro Glu
 225 230 235 240

Cys Phe Val Cys Gly Asp Cys Phe Thr Ser Phe Ser Thr Gly Ser Phe
 245 250 255

Phe Glu Leu Asp Gly Arg Pro Phe Cys Glu Leu His Tyr His His Arg
 260 265 270

Arg Gly Thr Leu Cys His Gly Cys Gly Gln Pro Ile Thr Gly Arg Cys
 275 280 285

Ile Ser Ala Met Gly Tyr Lys Phe His Pro Glu His Phe Val Cys Ala
 290 295 300

Phe Cys Leu Thr Gln Leu Ser Lys Gly Ile Phe Arg Glu Gln Asn Asp
 305 310 315 320

Lys Thr Tyr Cys Gln Pro Cys Phe Asn Lys Leu Phe Pro Leu
 325 330

<210> 673
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 673
 Asn Val Tyr Ser Glu Ala Gln Glu Pro Lys Glu Ser Pro Pro Pro Ser
 1 5 10 15

Lys Thr Ser Ala Ala Ala
 20

<210> 674
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 674
 Asp Ser Met Leu Gly Gly Leu Glu Gln Glu Leu Gln Asp Leu Gly Ile
 1 5 10 15

Ala Thr Val Pro Lys Gly His Cys Ala Ser
 20 25

<210> 675
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 675
 Tyr Leu Ser Ala Met Asp Thr Val Trp His Pro Glu Cys Phe Val Cys
 1 5 10 15

10004860-160701

Gly Asp Cys Phe Thr Ser Phe Ser Thr Gly
20 25

<210> 676
<211> 26
<212> PRT
<213> Homo sapiens

<400> 676
Arg Cys Ile Ser Ala Met Gly Tyr Lys Phe His Pro Glu His Phe Val
1 5 10 15

Cys Ala Phe Cys Leu Thr Gln Leu Ser Lys
20 25

<210> 677
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 677
Pro Thr Arg Pro Val Leu Phe Phe Ser Thr Cys Gln Ser Cys Ser Ser
1 5 10 15

Arg Pro Val Arg Gln Glu His Leu Gly Cys Arg Thr Met Glu Glu Leu
20 25 30

Asp Ala Leu Leu Glu Glu Leu Glu Arg Ser Thr Leu Gln Asp Ser Asp
35 40 45

Glu Tyr Ser Asn Pro Ala Pro Leu Pro Leu Asp Gln His Ser Arg Lys
50 55 60

Glu Thr Asn Leu Asp Glu Thr Ser Glu Ile Leu Ser Ile Gln Asp Asn
65 70 75 80

Thr Ser Pro Leu Pro Ala Xaa Ser Cys Ile Leu Pro Ile Ser Arg Ser
85 90 95

Ser Met Ser Thr Val Lys Pro Lys Ser Gln Arg Asn His His His Leu
100 105 110

Leu Lys Arg Gln Gln Leu Leu Ser Trp Met Ser Ser Trp Leu Thr
115 120 125

<210> 678
<211> 28
<212> PRT
<213> Homo sapiens

10004850-120001

<400> 678

Pro Val Arg Gln Glu His Leu Gly Cys Arg Thr Met Glu Glu Leu Asp
 1 5 10 15

Ala Leu Leu Glu Glu Leu Glu Arg Ser Thr Leu Gln
 20 25

<210> 679

<211> 21

<212> PRT

<213> Homo sapiens

<400> 679

Ser Cys Ile Leu Pro Ile Ser Arg Ser Ser Met Ser Thr Val Lys Pro
 1 5 10 15

Lys Ser Gln Arg Asn
 20

<210> 680

<211> 11

<212> PRT

<213> Homo sapiens

<400> 680

Trp His Pro Glu His Phe Val Cys Thr His Cys
 1 5 10

<210> 681

<211> 6

<212> PRT

<213> Homo sapiens

<400> 681

Leu Phe Ser Pro Arg Cys
 1 5

<210> 682

<211> 6

<212> PRT

<213> Homo sapiens

<400> 682

Pro Ile Leu Asp Lys Val
 1 5

<210> 683

<211> 8

<212> PRT

<213> Homo sapiens

<400> 683

10004360.120701

Thr Trp His Pro Glu His Phe Phe
1 5

<210> 684
<211> 7
<212> PRT
<213> Homo sapiens

<400> 684
Glu Gly Phe His Glu Lys Asp
1 5

<210> 685
<211> 13
<212> PRT
<213> Homo sapiens

<400> 685
Lys Phe His Pro Glu His Phe Val Cys Ala Phe Cys Leu
1 5 10

<210> 686
<211> 7
<212> PRT
<213> Homo sapiens

<400> 686
Pro Ile Thr Gly Arg Cys Ile
1 5

<210> 687
<211> 7
<212> PRT
<213> Homo sapiens

<400> 687
His Pro Glu His Phe Val Cys
1 5

<210> 688
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 688
Arg Ile Tyr Cys Ser Glu Asp Thr Phe Ser Pro Xaa Ala Glu Ser Gly
1 5 10 15

10004360 120701

Val Ser Trp Gln Ser Ser Val Ser Gln Leu Tyr Gln Asp Tyr Glu
 20 25 30

<210> 689

<211> 452

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 689

Met Gly Ser Ser Gln Ser Val Glu Ile Pro Gly Gly Gly Thr Glu Gly
 1 5 10 15

Tyr His Val Leu Arg Val Gln Glu Asn Ser Pro Gly His Arg Ala Gly
 20 25 30

Leu Glu Pro Phe Phe Asp Phe Ile Val Ser Ile Asn Gly Ser Arg Leu
 35 40 45

Asn Lys Asp Asn Asp Thr Leu Lys Asp Leu Leu Lys Xaa Asn Val Glu
 50 55 60

Lys Pro Val Lys Met Leu Ile Tyr Ser Ser Lys Thr Leu Glu Leu Arg
 65 70 75 80

Glu Thr Ser Val Thr Pro Ser Asn Leu Trp Gly Gly Gln Gly Leu Leu
 85 90 95

Gly Val Ser Ile Arg Phe Cys Ser Phe Asp Gly Ala Asn Glu Asn Val
 100 105 110

Trp His Val Leu Glu Val Glu Ser Asn Ser Pro Ala Ala Leu Ala Gly
 115 120 125

Leu Arg Pro His Ser Asp Tyr Ile Ile Gly Ala Asp Thr Val Met Asn
 130 135 140

Glu Ser Glu Asp Leu Phe Ser Leu Ile Glu Thr His Glu Ala Lys Pro
 145 150 155 160

Leu Lys Leu Tyr Val Tyr Asn Thr Asp Thr Asp Asn Cys Arg Glu Val
 165 170 175

Ile Ile Thr Pro Asn Ser Ala Trp Gly Gly Glu Gly Ser Leu Gly Cys
 180 185 190

Gly Ile Gly Tyr Gly Tyr Leu His Arg Ile Pro Thr Arg Pro Phe Glu
 195 200 205

Glu Gly Lys Lys Ile Ser Leu Pro Gly Gln Met Ala Gly Thr Pro Ile
 210 215 220

Thr Pro Leu Lys Asp Gly Phe Thr Glu Val Gln Leu Ser Ser Val Asn

10004560 120701

225 230 235 240
 Pro Pro Ser Leu Ser Pro Pro Gly Thr Thr Gly Ile Glu Gln Ser Leu
 245 250 255
 Thr Gly Leu Ser Ile Ser Ser Thr Pro Pro Ala Val Ser Ser Val Leu
 260 265 270
 Ser Thr Gly Val Pro Thr Val Pro Leu Leu Pro Pro Gln Val Asn Gln
 275 280 285
 Ser Leu Thr Ser Val Pro Pro Met Asn Pro Ala Thr Thr Leu Pro Gly
 290 295 300
 Leu Met Pro Leu Pro Ala Gly Leu Pro Asn Leu Pro Asn Leu Asn Leu
 305 310 315 320
 Asn Leu Pro Ala Pro His Ile Met Pro Gly Val Gly Leu Pro Glu Leu
 325 330 335
 Val Asn Pro Gly Leu Pro Pro Leu Pro Ser Met Pro Pro Arg Asn Leu
 340 345 350
 Pro Gly Ile Ala Pro Leu Pro Leu Pro Ser Glu Phe Leu Pro Ser Phe
 355 360 365
 Pro Leu Val Pro Glu Ser Ser Ser Ala Ala Ser Ser Gly Glu Leu Leu
 370 375 380
 Ser Ser Leu Pro Pro Thr Ser Asn Ala Pro Ser Asp Pro Ala Thr Thr
 385 390 395 400
 Thr Ala Lys Ala Asp Ala Ala Ser Ser Leu Thr Val Asp Val Thr Pro
 405 410 415
 Pro Thr Ala Lys Ala Pro Thr Thr Val Glu Asp Arg Val Gly Asp Ser
 420 425 430
 Thr Pro Val Ser Glu Lys Pro Val Ser Ala Ala Val Asp Ala Asn Ala
 435 440 445
 Ser Glu Ser Pro
 450

<210> 690

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 690

Ser Val Glu Ile Pro Gly Gly Gly Thr Glu Gly Tyr His Val Leu Arg
 1 5 10 15

10004360-120701

<210> 692

<211> 145
 <212> PRT
 <213> Homo sapiens

<400> 692

Glu Ser Asn Ser Pro Ala Ala Leu Ala Gly Leu Arg Pro His Ser Asp
 1 5 10 15
 Tyr Ile Ile Gly Ala Asp Thr Val Met Asn Glu Ser Glu Asp Leu Phe
 20 25 30
 Ser Leu Ile Glu Thr His Glu Ala Lys Pro Leu Lys Leu Tyr Val Tyr
 35 40 45
 Asn Thr Asp Thr Asp Asn Cys Arg Glu Val Ile Ile Thr Pro Asn Ser
 50 55 60
 Ala Trp Gly Gly Glu Gly Ser Leu Gly Cys Gly Ile Gly Tyr Gly Tyr
 65 70 75 80
 Leu His Arg Ile Pro Thr Arg Pro Phe Glu Glu Gly Lys Lys Ile Ser
 85 90 95
 Leu Pro Gly Gln Met Ala Gly Thr Pro Ile Thr Pro Leu Lys Asp Gly
 100 105 110
 Phe Thr Glu Val Gln Leu Ser Ser Val Asn Pro Pro Ser Leu Ser Pro
 115 120 125
 Pro Gly Thr Thr Gly Ile Glu Gln Ser Leu Thr Gly Leu Ser Ile Ser
 130 135 140
 Ser
 145

<210> 693
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 693

Arg Ile Pro Thr Arg Pro Phe Glu Glu Gly Lys Lys Ile Ser Leu Pro
 1 5 10 15
 Gly Gln Met Ala Gly Thr Pro Ile Thr Pro Leu Lys Asp Gly Phe Thr
 20 25 30
 Glu Val Gln Leu Ser Ser Val Asn Pro Pro Ser Leu Ser Pro Pro Gly
 35 40 45
 Thr Thr Gly Ile Glu Gln Ser Leu Thr Gly Leu Ser Ile Ser Ser Thr
 50 55 60
 Pro Pro Ala Val Ser Ser Val Leu Ser Thr Gly Val Pro Thr Val Pro
 65 70 75 80
 Leu Leu Pro Pro Gln Val Asn Gln Ser Leu Thr Ser Val Pro Pro Met

10004860-120701

95.

$\langle 211 \rangle$ 10

<212> PRT
 <213> Homo sapiens

<400> 696
 Ser Pro Ala Ala Leu Ala Gly Leu Arg Pro
 1 5 10

<210> 697
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 697
 Trp Gly Gly Gln Gly Leu Leu Gly
 1 5

<210> 698
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 698
 Arg Asn Gly Ala Leu Leu Asp Lys Asn Phe Phe Asn Ala Asn Ser His
 1 5 10 15

Phe Pro Val Lys Gly Glu Arg Ile Arg Arg Arg
 20 25

<210> 699
 <211> 97
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 699
 Arg Gly Ser Gly Phe Gly Trp Thr Ser Phe Pro Arg Pro Leu Pro Thr
 1 5 10 15

Glu Leu Thr Cys Pro Gly Phe His Arg Glu Arg Ala Phe Pro Pro Asp
 20 25 30

Gly Arg Val Arg Gly Val Arg Gly Trp Gly Ile Arg Arg Gly Cys Arg
 35 40 45

Ala Val Trp Gly Val Gly Ala Cys Gly Cys Ser Pro Gly Ser Ser Trp
 50 55 60

Arg Gly Ser Ala His Arg Ala Ser Gly Pro Ala Asp Leu Pro Val Ala
 65 70 75 80

Cys Arg Xaa Glu Gly Gly Ala Asp Ser Pro Ser Leu Leu Pro Ser Pro

10004860.120701

95

```
<210> 700
<211> 23
<212> PRT
<213> Homo sapiens
```

<400> 700
Ala Val Trp Gly Val Gly Ala Cys Gly Cys Ser Pro Gly Ser Ser Trp
1 5 10 15

Arg Gly Ser Ala His Arg Ala
20

```
<210> 701
<211> 77
<212> PRT
<213> Homo sapiens
```

<400> 701
Tyr Arg Pro Thr Met Glu Lys Met Lys Gln Val Val Thr Gln Thr Arg
1 5 10 15

Trp Met Arg Pro Asp Ala Lys Arg Ala Asn Arg Arg His Arg Arg Ile
20 25 30

Ser Gly Lys Ile Phe Ala Trp Asn Pro Leu Pro Lys Thr Arg Phe Ser
35 40 45

Arg Leu Leu Lys Ala Val Ser Glu Asn Thr Lys Arg Pro Glu Pro Ser
50 55 60

Arg Pro Pro Trp Met Val Ser His Ser Val Glu Ala Ser
65 70 75

```
<210> 702
<211> 27
<212> PRT
<213> Homo sapiens
```

<400> 702
Phe Ala Trp Asn Pro Leu Pro Lys Thr Arg Phe Ser Arg Leu Leu Lys
1 5 10 15

Ala Val Ser Glu Asn Thr Lys Arg Pro Glu Pro
20 25

```
<210> 703
<211> 93
<212> PRT
<213> Homo sapiens
```

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

10004360-120701

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 703

Ile Tyr Lys Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val Ser
 1 5 10 15

Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Trp Ile Phe Gly Val Leu His Val Val His
 35 40 45

Ala Ser Val Val Thr Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln
 50 55 60

Gly Met Phe Ile Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln
 65 70 75 80

Glu Glu Tyr Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys
 85 90

<210> 704

<211> 55

<212> PRT

<213> Homo sapiens

<400> 704

Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val Val Thr Ala
 1 5 10 15

Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe Ile Phe Leu
 20 25 30

Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr Tyr Arg Leu
 35 40 45

Phe Lys Asn Val Pro Cys Cys
 50 55

<210> 705

<211> 26

<212> PRT

<213> Homo sapiens

<400> 705

Ile Tyr Lys Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val Ser
 1 5 10 15

Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg
 20 25

<210> 706

<211> 66

<212> PRT

10004860-120701

<213> Homo sapiens

<400> 706

Ile Ile Tyr Lys Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val
1 5 10 15

Ser Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg Gly Ala Leu Ala Leu
20 25 30

Leu Phe Leu Leu Gly Thr Thr Trp Ile Phe Gly Val Leu His Val Val
35 40 45

His Ala Ser Val Val Thr Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe
50 55 60

Gln Gly
65

<210> 707

<211> 32

<212> PRT

<213> Homo sapiens

<400> 707

Glu Val Ser Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg Gly Ala Leu
1 5 10 15

Ala Leu Leu Phe Leu Leu Gly Thr Thr Trp Ile Phe Gly Val Leu His
20 25 30

<210> 708

<211> 86

<212> PRT

<213> Homo sapiens

<400> 708

Thr Thr Ile Leu Arg Thr Cys Thr Ile Val Cys Phe Tyr Tyr Trp Phe
1 5 10 15

Asn Gly Val Met Val Leu Leu Phe Phe Leu Asp Arg Asn Leu Leu Thr
20 25 30

Phe Asn Gln Ala Ser Ile Met Pro Phe Ser Asn Thr Asp Phe Leu His
35 40 45

Cys Leu Ser Phe Lys Lys Lys Leu Met Leu Leu Arg Tyr Ile Phe Tyr
50 55 60

Val Val Leu Thr Gly Pro Thr Leu Ser Leu Lys Gly Asp Glu Asn Gln
65 70 75 80

Ile Lys Asn Leu Phe Thr
85

10004860.120701

<210> 709
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 709
 Ile Val Cys Phe Tyr Tyr Trp Phe Asn Gly Val Met Val Leu Leu Phe
 1 5 10 15
 Phe Leu Asp Arg Asn Leu Leu
 20

<210> 710
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 710
 Leu Leu Arg Tyr Ile Phe Tyr Val Val Leu Thr Gly Pro Thr Leu Ser
 1 5 10 15
 Leu Lys Gly Asp Glu Asn Gln Ile
 20

<210> 711
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 711
 Ala Leu Thr Arg Ile Pro Pro Gly Asp Trp Val Ile Asn Val Thr Ala
 1 5 10 15
 Val Ser Phe Ala Gly Lys Thr Thr Ala Arg Phe Phe Xaa His Ser Ser
 20 25 30
 Pro Pro Ser Leu Gly Asp Gln Ala Arg Thr Asp Pro Gly His Gln Arg
 35 40 45
 Arg Asp
 50

<210> 712
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 712
 Ser Met Leu Leu Leu Phe Pro Leu Gln Glu Arg Pro Gln Gln Asp Ser
 1 5 10 15
 Phe Ile Arg Leu Leu Leu Ala Trp Gly Thr Arg Leu Glu Leu Thr Leu
 20 25 30

10004860-120701

Asp Ile Lys Gly Gly Ile
35

<210> 713
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 713
Thr Gly Leu Trp Ala Asp Gly Phe Ser Ser His Ile Ile Pro Pro Leu
1 5 10 15

Met Ser Arg Val Ser Ser Ser Leu Val Pro Gln Ala Arg Arg Arg Arg
20 25 30

Met Lys Glu Ser Cys Cys Gly Leu Ser Cys Lys Gly Asn Ser Ser Asn
35 40 45

Ile Asp Tyr Pro Val Thr Gly Arg Asn Ser Cys Glu Arg Ala Pro Leu
50 55 60

Cys Ala Phe Ala Leu His Phe Gln Glu Arg Thr Xaa Ile Thr Gly Xaa
65 70 75 80

Gly Glu Asp Pro Gly Pro Phe Gln Ser Xaa Gly Arg Val Thr Ala Ser
85 90 95

Arg Xaa Thr Leu Ala Cys Ser His Val Ala Met Thr Pro Ala Gly Cys
100 105 110

Xaa Gln Ala Leu Gly Thr Pro Ser Ser Tyr Cys Val Arg Lys Ala Pro

10004860.120701

115

120

125

Arg Ala
130

<210> 714
<211> 28
<212> PRT
<213> Homo sapiens

<400> 714
Gln Ala Arg Arg Arg Met Lys Glu Ser Cys Cys Gly Leu Ser Cys
1 5 10 15

Lys Gly Asn Ser Ser Asn Ile Asp Tyr Pro Val Thr
20 25

<210> 715
<211> 9
<212> PRT
<213> Homo sapiens

<400> 715
Leu Trp Arg Ser Ser Gly Val Glu Arg
1 5

<210> 716
<211> 27
<212> PRT
<213> Homo sapiens

<400> 716
Leu Gln Glu Val Asn Ile Thr Leu Pro Glu Asn Ser Val Trp Tyr Glu
1 5 10 15

Arg Tyr Lys Phe Asp Ile Pro Val Phe His Leu
20 25

<210> 717
<211> 110
<212> PRT
<213> Homo sapiens

<400> 717
Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys
1 5 10 15

Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln
20 25 30

Gly Gly Arg Arg Phe Pro Lys Thr Cys Arg Ala Ile Ser Gln Asn Leu
35 40 45

Val Phe Lys Tyr Lys Thr Phe Cys Pro Val Arg Tyr Met Gln Pro His

10004860.120701

```

<400> 720
Pro Val Arg Tyr Met Gln Pro His Arg Ser Ser Leu Cys Leu His Phe
  1             5             10             15
Thr Ser Tyr Val Phe Ile Leu Ser Thr Trp Gly Ser Leu Arg Thr Tyr

```

20

25

30

Ser Thr Asp Leu Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro Val
 35 40 45

Pro Ile Arg Pro Lys Ser
 50

<210> 721

<211> 38

<212> PRT

<213> Homo sapiens

<400> 721

Gly Glu Glu Gln Arg Asp Cys Ser Leu Gly Trp Arg Gly Val Gly Met
 1 5 10 15

Arg Ala Thr His Cys Gln Ala Ala Arg Met Phe Val Leu Phe Ser Leu
 20 25 30

Pro Lys Tyr Ala Gly Leu
 35

<210> 722

<211> 39

<212> PRT

<213> Homo sapiens

<400> 722

Thr Ser Gly Ser Pro Gly Cys Arg Ile Arg His Glu Leu Pro Gly Glu
 1 5 10 15

Glu Gln Arg Asp Cys Ser Leu Gly Trp Arg Gly Val Gly Met Arg Ala
 20 25 30

Thr His Cys Gln Ala Ala Arg
 35

<210> 723

<211> 128

<212> PRT

<213> Homo sapiens

<400> 723

Glu Pro Pro Ile Ala Lys Gln Gln Glu Cys Ser Cys Phe Phe Pro Phe
 1 5 10 15

Gln Asn Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys
 20 25 30

Leu Cys Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser
 35 40 45

Arg Gln Gly Gly Arg Arg Phe Pro Lys Thr Cys Arg Ala Ile Ser Gln
 50 55 60

10004860-120701

Asn Leu Val Phe Lys Tyr Lys Thr Phe Cys Pro Val Arg Tyr Met Gln
 65 70 75 80

Pro His Arg Ser Ser Leu Cys Leu His Phe Thr Ser Tyr Val Phe Ile
 85 90 95

Leu Ser Thr Trp Gly Ser Leu Arg Thr Tyr Ser Thr Asp Leu Lys Lys
 100 105 110

Lys Lys Lys Asn Ser Arg Gly Gly Pro Val Pro Ile Arg Pro Lys Ser
 115 120 125

<210> 724
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 724
 Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys Phe Ser Cys Pro Cys Ser
 1 5 10 15

Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln Gly Gly Arg Arg Phe
 20 25 30

<210> 725
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 725
 Asn Gln Phe Thr Ser Cys Ile Leu Phe Cys Asp Gly Gly His Trp Arg
 1 5 10 15

Glu Leu Leu Phe Gln Ser Ile
 20

<210> 726
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 726
 Ala Met Ser Ser Lys Leu Leu Asn Leu Leu Ala Leu Leu Gln Tyr Ser
 1 5 10 15

Val His Asp His Cys His Pro Arg Arg Leu Leu Lys Arg Gly Ala Arg
 20 25 30

Ala Thr Leu Arg His Lys Gly Trp Gly Pro Ser Ser Leu Arg Gly Cys
 35 40 45

10004850.120701

Glu Ser Phe Gln Ile Val Leu Ile Gly Trp Gly Pro Asp Leu Ala Val
50 55 60

Gly Phe Gly Arg Gly Lys Leu Leu Ser Arg Ser Leu Pro Val Arg His
65 70 75 80

Gly Gly Val Ser Glu Phe Cys Leu Pro His Arg Asp Val Val Arg Leu
85 90 95

Glu Lys Val Lys Lys
100

<210> 727

<211> 33

<212> PRT

<213> Homo sapiens

<400> 727

Gly Pro Ser Ser Leu Arg Gly Cys Glu Ser Phe Gln Ile Val Leu Ile
1 5 10 15

Gly Trp Gly Pro Asp Leu Ala Val Gly Phe Gly Arg Gly Lys Leu Leu
20 25 30

Ser

<210> 728

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 728

Thr Arg Lys Asn Ile Asp Phe Xaa Glu Thr Glu Lys Tyr Tyr Leu Phe
1 5 10 15

Ser Phe Ser Asn Asn Val Ser Phe Lys Asn Phe Trp Leu Lys Tyr Asn
20 25 30

<210> 729

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

10004860-120701

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 729

Met	Pro	Arg	Lys	Thr	Ser	Lys	Cys	Arg	Gln	Leu	Leu	Cys	Ser	Gly	Ala
1				5					10					15	

Ser	Arg	Asn	Ala	Asp	Thr	Ala	Ala	Arg	Gln	Ser	Thr	Cys	Ser	Ser	His
		20						25					30		

Arg	Pro	Pro	Gly	Lys	Ile	Pro	Ser	Leu	Gly	Pro	Arg	Arg	Xaa	Pro	Gly
		35					40					45			

Cys	Xaa	Ser	Val	Pro	Ser	Ser	Arg	Gly	Glu	Gln	Ser	Thr	Gly	Ser	Pro
	50					55					60				

Ala	Ala	Pro	Arg	Cys	Gly	Arg	Arg	Asp	Ala	His	Arg	Gly	Leu	Pro	Gly
65					70					75				80	

Gly	Ala	Ala	Met	Thr	Pro	Gly	Asp	Thr	Trp	Ala	Ser	Phe	Asn	Pro	Arg
				85					90					95	

Ala	Gly	His	Ser	Lys	Ser	Gln	Gly	Glu	Gly	Gln	Glu	Ser	Ser	Gly	Ala
			100					105					110		

Ser	Arg	Gln	Asp	Arg	His	Pro	Val	Ser	His	Trp	Val	Glu	Arg	Gln	Arg
		115					120					125			

Glu	Ala	Trp	Gly	Ala	Pro	Arg	Ser	Ser	Ser	Ala	Gly	Gly	Val	Lys	Val
130						135					140				

Ala	Ala	Thr	Thr	Glu	Arg	Glu	Pro	Glu	Phe	Lys	Ile	Lys	Thr	Gly	Lys
145					150					155					160

Ala

<210> 730

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 730

10004350-120701

Cys Ser Gly Ala Ser Arg Asn Ala Asp Thr Ala Ala Arg Gln Ser Thr
1 5 10 15

Cys Ser Ser His Arg Pro Pro Gly Lys Ile Pro Ser Leu Gly Pro Arg
20 25 30

Arg Xaa Pro Gly Cys Xaa Ser Val Pro Ser Ser Arg Gly Glu Gln Ser
35 40 45

Thr Gly Ser Pro Ala Ala Pro Arg Cys Gly Arg Arg Asp Ala His Arg
50 55 60

Gly Leu Pro Gly Gly Ala Ala Met Thr Pro Gly Asp Thr Trp Ala Ser
65 70 75 80

Phe Asn Pro Arg Ala Gly His Ser
85

<210> 731

<211> 59

<212> PRT

<213> Homo sapiens

<400> 731

Gln Gly Glu Gly Gln Glu Ser Ser Gly Ala Ser Arg Gln Asp Arg His
1 5 10 15

Pro Val Ser His Trp Val Glu Arg Gln Arg Glu Ala Trp Gly Ala Pro
20 25 30

Arg Ser Ser Ser Ala Gly Gly Val Lys Val Ala Ala Thr Thr Glu Arg
35 40 45

Glu Pro Glu Phe Lys Ile Lys Thr Gly Lys Ala
50 55

<210> 732

<211> 63

<212> PRT

<213> Homo sapiens

<400> 732

Ile Arg His Glu Gly Lys Arg Met Leu Asn Glu Ser Arg Lys Pro Leu
1 5 10 15

Ser Phe Ala Ser Arg Leu Ser Ser Leu Tyr Phe Lys Leu Gly Phe Pro
20 25 30

Phe Cys Gly Arg Ser Asn Leu Tyr Ser Thr Cys Thr Ala Ala Pro Gly
35 40 45

Gly Ser Pro Gly Leu Pro Leu Pro Phe Tyr Pro Val Ala Asp Gly
50 55 60

<210> 733

10004360-120701

<211> 176
 <212> PRT
 <213> Homo sapiens.

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 733

Thr Arg Ala Glu Ser Leu Phe Pro Leu Leu His Ala Phe Pro Val Phe
 1 5 10 15

Ile Leu Asn Ser Gly Ser Leu Ser Val Val Ala Ala Thr Phe Thr Pro
 20 25 30

Pro Ala Leu Leu Leu Leu Gly Ala Pro Gln Ala Ser Leu Cys Leu Ser
 35 40 45

Thr Gln Trp Leu Thr Gly Cys Leu Ser Cys Leu Asp Ala Pro Leu Leu
 50 55 60

Ser Cys Pro Ser Pro Trp Leu Leu Leu Cys Pro Ala Leu Gly Leu Lys
 65 70 75 80

Leu Ala His Val Ser Pro Gly Val Met Ala Ala Pro Pro Gly Arg Pro
 85 90 95

Leu Cys Ala Ser Arg Leu Pro His Leu Gly Ala Ala Gly Glu Pro Val
 100 105 110

Leu Cys Ser Pro Arg Leu Leu Gly Thr Glu Leu Gln Pro Gly Xaa Leu
 115 120 125

Arg Gly Pro Arg Leu Gly Ile Leu Pro Gly Gly Arg Trp Glu Glu Gln
 130 135 140

Val Leu Cys Leu Ala Ala Val Ser Ala Phe Leu Asp Ala Pro Glu His
 145 150 155 160

Arg Ser Cys Arg His Phe Glu Val Phe Leu Gly Met Cys Gln Ile Thr
 165 170 175

<210> 734
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 734

Pro Ala Leu Gly Leu Lys Leu Ala His Val Ser Pro Gly Val Met Ala
 1 5 10 15

Ala Pro Pro Gly Arg Pro Leu Cys Ala Ser Arg Leu Pro
 20 25

10004560-120701

<210> 735
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 735
 Gly Gly Arg Trp Glu Glu Gln Val Leu Cys Leu Ala Ala Val Ser Ala
 1 5 10 15

Phe Leu Asp Ala Pro Glu His Arg
 20

<210> 736
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 736
 Ser Trp Pro Met Cys Pro Pro Glu Ser Trp Leu Leu Leu Gly Gly
 1 5 10 15

Leu Cys Val Arg His Val Phe His Thr Trp Gly Gln Leu Ala Ser Pro
 20 25 30

Cys Ser Val Pro Leu Gly Cys Leu Ala Gln Ser Cys Ser Leu Gly Xaa
 35 40 45

Ser Val Asp Pro Asp Trp Gly Phe Cys Gln Gly Gly Asp Gly Arg Ser
 50 55 60

Arg Cys Phe Ala Trp Arg Leu Cys Leu His Phe Trp Thr Pro Gln Ser
 65 70 75 80

Thr Glu Val Ala Gly Thr Leu Arg Ser Ser Ser Ala Cys Ala Arg Leu
 85 90 95

His Glu

<210> 737
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 737
 Gly Asp Gly Arg Ser Arg Cys Phe Ala Trp Arg Leu Cys Leu His Phe
 1 5 10 15

Trp Thr Pro Gln Ser Thr Glu Val Ala Gly Thr Leu Arg

10004860 120701

20

25

<210> 738
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 738

Met Ser Pro Arg Tyr Pro Gly Gly Pro Arg Pro Pro Leu Arg Ile Pro
 1 5 10 15

Asn Gln Ala Leu Gly Gly Val Pro Gly Ser Gln Pro Leu Leu Pro Ser
 20 25 30

Gly Met Asp Pro Thr Arg Gln Gln Gly His Pro Asn Met Gly Gly Pro
 35 40 45

Met Gln Arg Met Thr Pro Pro Arg Gly Met Val Pro Leu Gly Pro Gln
 50 55 60

Asn Tyr Gly Gly Ala Met Arg Pro Pro Leu Asn Ala Leu Gly Gly Pro
 65 70 75 80

Gly Met Pro Gly Met Asn Met Gly Pro Gly Gly Gly Arg Pro Trp Pro
 85 90 95

Asn Pro Thr Asn Ala Asn Ser Ile Pro Tyr Ser Ser Ala Ser Pro Gly
 100 105 110

Asn Tyr Val Gly Pro Pro Gly Gly Gly Gly Pro Pro Gly Thr Pro Ile
 115 120 125

Met Pro Ser Pro Ala Asp Ser Thr Asn Ser Gly Asp Asn Met Tyr Thr
 130 135 140

Leu Met Asn Ala Val Pro Pro Gly Pro Asn Arg Pro Asn Phe Pro Met
 145 150 155 160

Gly Pro Gly Ser Asp Gly Pro Met Gly Gly Leu Gly Gly Met Glu Ser
 165 170 175

His His Met Asn Gly Ser Leu Gly Ser Gly Asp Met Asp Ser Ile Ser
 180 185 190

Lys Asn Ser Pro Asn Asn Met Ser Leu Ser Asn Gln Pro Gly Thr Pro
 195 200 205

Arg Asp Asp Gly Glu Met Gly Gly Asn Phe Leu Asn Pro Phe Gln Ser
 210 215 220

Glu Ser Tyr Ser Pro Ser Met Thr Met Ser Val
 225 230 235

<210> 739
 <211> 114
 <212> PRT

10004360-120701

<213> Homo sapiens

<400> 739

Met Ser Pro Arg Tyr Pro Gly Gly Pro Arg Pro Pro Leu Arg Ile Pro
1 5 10 15

Asn Gln Ala Leu Gly Gly Val Pro Gly Ser Gln Pro Leu Leu Pro Ser
20 25 30

Gly Met Asp Pro Thr Arg Gln Gln Gly His Pro Asn Met Gly Gly Pro
35 40 45

Met Gln Arg Met Thr Pro Pro Arg Gly Met Val Pro Leu Gly Pro Gln
50 55 60

Asn Tyr Gly Gly Ala Met Arg Pro Pro Leu Asn Ala Leu Gly Gly Pro
65 70 75 80

Gly Met Pro Gly Met Asn Met Gly Pro Gly Gly Gly Arg Pro Trp Pro
85 90 95

Asn Pro Thr Asn Ala Asn Ser Ile Pro Tyr Ser Ser Ala Ser Pro Gly
100 105 110

Asn Tyr

<210> 740

<211> 81

<212> PRT

<213> Homo sapiens

<400> 740

Leu Asn Ala Leu Gly Gly Pro Gly Met Pro Gly Met Asn Met Gly Pro
1 5 10 15

Gly Gly Gly Arg Pro Trp Pro Asn Pro Thr Asn Ala Asn Ser Ile Pro
20 25 30

Tyr Ser Ser Ala Ser Pro Gly Asn Tyr Val Gly Pro Pro Gly Gly Gly
35 40 45

Gly Pro Pro Gly Thr Pro Ile Met Pro Ser Pro Ala Asp Ser Thr Asn
50 55 60

Ser Gly Asp Asn Met Tyr Thr Leu Met Asn Ala Val Pro Pro Gly Pro
65 70 75 80

Asn

<210> 741

<211> 70

<212> PRT

<213> Homo sapiens

10004860-120701

<400> 741

Gly Pro Met Gly Gly Leu Gly Gly Met Glu Ser His His Met Asn Gly
 1 5 10 15

Ser Leu Gly Ser Gly Asp Met Asp Ser Ile Ser Lys Asn Ser Pro Asn
 20 25 30

Asn Met Ser Leu Ser Asn Gln Pro Gly Thr Pro Arg Asp Asp Gly Glu
 35 40 45

Met Gly Gly Asn Phe Leu Asn Pro Phe Gln Ser Glu Ser Tyr Ser Pro
 50 55 60

Ser Met Thr Met Ser Val
 65 70

<210> 742

<211> 14

<212> PRT

<213> Homo sapiens

<400> 742

Thr Cys Glu His Ser Ser Glu Ala Lys Ala Phe His Asp Tyr
 1 5 10

<210> 743

<211> 19

<212> PRT

<213> Homo sapiens

<400> 743

Arg Arg Glu Thr Cys Glu His Ser Ser Glu Ala Lys Ala Phe His Asp
 1 5 10 15

Tyr Pro Phe

<210> 744

<211> 20

<212> PRT

<213> Homo sapiens

<400> 744

Thr Ile Thr Leu Phe Gln Ser Ala Trp Cys Phe Phe Ser Lys Tyr Cys
 1 5 10 15

Thr Asp Phe Thr
 20

<210> 745

<211> 105

<212> PRT

<213> Homo sapiens

10004860-120701

<400> 745

Val Arg Gly Cys Glu Asp Gly Gly Gly Gly Gly Ile Trp Gly Gly Trp
 1 5 10 15

Trp Pro Gly Gln Gln Met Ala Pro Pro Trp Leu Ser Cys Pro His Arg
 20 25 30

Gln Phe Pro His Phe His Ser Gly Arg Gln Arg Arg Gln Ser Asp Leu
 35 40 45

Leu Lys Glu Glu Leu Pro Gln Pro Ser Gly Ala Ala Gly Arg Ala Ser
 50 55 60

Gly Asn Lys Pro Tyr Thr Pro Pro Pro Ala Ser Asn Ser Leu Thr Leu
 65 70 75 80

Arg Leu Leu Ser Phe Arg Phe Asn Ala Phe Asn Arg Ser His Pro Gln
 85 90 95

Pro Ser Leu Asn Tyr Lys Asp Arg Gln
 100 105

<210> 746

<211> 25

<212> PRT

<213> Homo sapiens

<400> 746

Pro Trp Leu Ser Cys Pro His Arg Gln Phe Pro His Phe His Ser Gly
 1 5 10 15

Arg Gln Arg Arg Gln Ser Asp Leu Leu
 20 25

<210> 747

<211> 20

<212> PRT

<213> Homo sapiens

<400> 747

Arg Leu Leu Ser Phe Arg Phe Asn Ala Phe Asn Arg Ser His Pro Gln
 1 5 10 15

Pro Ser Leu Asn
 20

<210> 748

<211> 56

<212> PRT

<213> Homo sapiens

<400> 748

Arg Asp Ser Ser Leu Trp Ala Ala Ala Leu Ser Phe Arg Gln Gln Cys
 1 5 10 15

1004850-120701

Ser Ser Leu Ala Ser Cys Leu Val Ser Met Tyr Ser Arg Pro Gly Arg
20 25 30

Gln His Arg Ala Lys Ala Gly Ala Gly Ser Gln Thr Glu Gln Cys Trp
35 40 45

Gly Arg Lys Val Asp Ala Val Val
50 55

<210> 749

<211> 27

<212> PRT

<213> Homo sapiens

<400> 749

Cys Leu Val Ser Met Tyr Ser Arg Pro Gly Arg Gln His Arg Ala Lys
1 5 10 15

Ala Gly Ala Gly Ser Gln Thr Glu Gln Cys Trp
20 25

<210> 750

<211> 86

<212> PRT

<213> Homo sapiens

<400> 750

Pro Glu His Gly Phe Ser Ser Cys Asp Phe Trp Glu Gly Ala Pro Ser
1 5 10 15

Ser Gly Pro Lys Glu Gly Gly Arg Ser Pro Pro Gln Leu Ala Cys Val
20 25 30

Trp Gly Met Asn Leu Ser Ser Pro Pro Cys Leu Ala Leu Leu Thr Asn
35 40 45

Arg Ala Cys Leu Ala Val Asn Trp His Arg Val Thr Leu Phe Pro Gly
50 55 60

Ile Gln Val Cys Asn Gln Asn Thr Gly Glu Glu Lys Leu Gln Asp Pro
65 70 75 80

Cys Pro His Leu Ser Ser
85

<210> 751

<211> 30

<212> PRT

<213> Homo sapiens

<400> 751

Arg Ser Pro Pro Gln Leu Ala Cys Val Trp Gly Met Asn Leu Ser Ser
1 5 10 15

Pro Pro Cys Leu Ala Leu Leu Thr Asn Arg Ala Cys Leu Ala

10004350 "120701

20

25

30

<210> 752
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 752
 Cys Glu Arg Asp Ser Glu Thr Ser Ser Ile Ala Met Thr Cys Ile Lys
 1 5 10 15

His Lys Pro Pro Lys Gln Lys Lys Arg Leu Ser Leu Leu Pro Gly Phe
 20 25 30

Arg Ser Ala Leu Pro Arg Val Cys Arg Cys His Met Ile Thr Val Gln
 35 40 45

Arg Glu Ala Phe Arg Thr His Thr Gly Cys Ser Thr Ser Val His Leu
 50 55 60

Pro Ser Arg Gly Gly Phe Leu Pro Asp Phe
 65 70

<210> 753
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 753
 Lys Lys Arg Leu Ser Leu Leu Pro Gly Phe Arg Ser Ala Leu Pro Arg
 1 5 10 15

Val Cys Arg Cys His Met Ile Thr Val Gln Arg Glu
 20 25

<210> 754
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 754
 Gln Ala Phe Val Leu Leu Ser Asp Leu Leu Leu Ile Phe Ser Pro Gln
 1 5 10 15

Met Ile Val Gly Gly Arg Asp Phe Leu Arg Pro Leu Val Phe Phe Pro
 20 25 30

Glu Ala Thr Leu Gln Ser Glu Leu Ala Ser Phe Leu Met Asp His Val
 35 40 45

Phe Ile Gln Pro Gly Asp Leu Gly Ser Gly Ala
 50 55

<210> 755

10004360-10001

<211> 43
 <212> PRT
 <213> Homo sapiens

<400> 755
 Ala Cys Ser Tyr Leu Leu Cys Asn Pro Glu Phe Thr Phe Phe Ser Arg
 1 5 10 15
 Ala Asp Phe Ala Arg Ser Gln Leu Val Asp Leu Leu Thr Asp Arg Phe
 20 25 30
 Gln Gln Glu Leu Glu Glu Leu Leu Gln Val Gly
 35 40

<210> 756
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 756
 Gln Lys Gln Leu Ser Ser Leu Arg Asp Arg Met Val Ala Phe Cys Glu
 1 5 10 15
 Leu Cys Gln Ser Cys Leu Ser Asp Val Asp Thr Glu Ile Gln Glu Gln
 20 25 30
 Val Ser Thr
 35

<210> 757
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 757
 Gln Val Ile Leu Pro Ala Leu Thr Leu Val Tyr Phe Ser Ile Leu Trp
 1 5 10 15
 Thr Leu Thr His Ile Ser Lys Ser Asp Ala Ser
 20 25

<210> 758
 <211> 31
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 758
 Ser Thr His Asp Leu Thr Arg Trp Glu Leu Tyr Glu Pro Cys Cys Gln
 1 5 10 15

10004860 120701

Leu Leu Gln Lys Ala Val Asp Thr Gly Xaa Val Pro His Gln Val
 20 25 30

<210> 759
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 759
 Thr Ser Phe Leu Phe Pro Leu Gln Ala Phe Val Leu Leu Ser Asp Leu
 1 5 10 15

Leu Leu Ile Phe Ser Pro Gln Met Ile Val Gly Gly Arg Asp Phe Leu
 20 25 30

Arg Pro Leu Val Phe Phe Pro Glu Ala Thr Leu Gln Ser Glu Leu Ala
 35 40 45

Ser Phe Leu Met Asp His Val Phe Ile Gln Pro Gly Asp Leu Gly Ser
 50 55 60

Gly Ala
 65

<210> 760
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 760
 Gly Trp Gly Ala Cys Ser Tyr Leu Leu Cys Asn Pro Glu Phe Thr Phe
 1 5 10 15

Phe Ser Arg Ala Asp Phe Ala Arg Ser Gln Leu Val Asp Leu Leu Thr
 20 25 30

Asp Arg Phe Gln Gln Glu Leu Glu Glu Leu Leu Gln Val Gly Ala Gly
 35 40 45

Ala Gly Gln Trp Asp Thr Pro Asn Lys Gly Gly Arg Gly Cys Lys Thr
 50 55 60

Gly Asp Val Asp
 65

<210> 761
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 761
 Val Trp Val Leu Asp Gly Ile Met Gly Thr Glu Glu Ser Val Ser Ser
 1 5 10 15

Phe Phe Pro Phe Lys Pro Leu Cys Pro Gln Lys Gln Leu Ser Ser Leu

10004360-120701

20 25 30
 Arg Asp Arg Met Val Ala Phe Cys Glu Leu Cys Gln Ser Cys Leu Ser
 35 40 45
 Asp Val Asp Thr Glu Ile Gln Glu Gln Val Ser Thr Asp Ser Ser Gly
 50 55 60
 Ser Asn Lys Ala Ser Ile Pro Ala Pro Ile Pro Arg Arg Asn
 65 70 75

 <210> 762
 <211> 152
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 762
 Asn Ala Ser Leu Pro Ser Thr Ser Glu Trp Leu Ser Ser Ser Ser Pro
 1 5 10 15
 Ser Arg Phe Tyr Trp Cys Leu Trp Ser Trp Phe Pro Leu Phe Phe Ser
 20 25 30
 Ser Ile Thr Phe Pro Phe Leu Pro Gln Ser Thr His Asp Leu Thr Arg
 35 40 45
 Trp Glu Leu Tyr Glu Pro Cys Cys Gln Leu Leu Gln Lys Ala Val Asp
 50 55 60
 Thr Gly Xaa Val Pro His Gln Val Ser Gly Gln Ala Arg Asp Gly Leu
 65 70 75 80
 Gly Ala Gly Gly Leu Xaa Phe Lys Asp Leu Arg Ser Arg Trp Pro Leu
 85 90 95
 Gly Val Ser Ser Leu Ser Ala Trp Ser Gly Gln Ser Glu Glu Asp Gln
 100 105 110
 Val Gly Gly Gly His Leu Leu His Ser Ser Leu Arg Arg Trp Thr Leu
 115 120 125
 Leu Pro Gly Ser Ser Trp Ile Ser Trp Lys Pro Arg Ile Ile Leu Arg
 130 135 140
 Asp Ser Arg Arg Arg Arg Val Asn
 145 150

10004860-120701

<210> 763
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 763
 Val Leu Gly Glu Met Leu Leu Trp Ile Phe Phe Pro Ser Gln Ser Ser
 1 5 10 15
 Phe Leu Asp Glu Asp Glu Val Tyr Asn Leu Ala Ala Thr Leu Lys Arg
 20 25 30
 Leu Ser Ala Phe Tyr Lys
 35

<210> 764
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 764
 Pro Lys Pro His Phe Ser Asn Pro Leu Leu Leu Gln Val Ile Leu Pro
 1 5 10 15
 Ala Leu Thr Leu Val Tyr Phe Ser Ile Leu Trp Thr Leu Thr His Ile
 20 25 30
 Ser Lys Ser Asp Ala Ser Pro Gly Glu Cys Gly Ser
 35 40

<210> 765
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 765
 His Cys Gln Phe Leu Leu Gly
 1 5

<210> 766
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 766
 Glu Phe Gly Thr Ser Leu Val Ala Leu Glu Leu His Glu Leu Leu Tyr
 1 5 10 15
 His Trp Glu Thr Arg Ala Gln Pro Ser Leu Ile Leu Tyr Val Val Ser
 20 25 30
 Asp Leu Arg Trp Met Glu Phe Arg Thr Ser Cys Leu Leu Phe Asp Phe
 35 40 45

10004350.120701

Val Leu Phe Leu Glu
50

<210> 767
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 767
Thr Lys Pro Gly Met Val Gly His Val Pro Ile Val Pro Ala Thr Lys
1 5 10 15
Xaa Ala Glu Ala Gly Gly Ser Pro Glu Pro Gly Ser Ser Thr Leu Gln
20 25 30
Trp Pro Met Ile Thr Pro Cys Thr Pro Ser Trp Ala Thr Glu Pro Asp
35 40 45
His Val Ser Glu Asp Glu
50

<210> 768
<211> 30
<212> PRT
<213> Homo sapiens

<400> 768
Leu Leu Tyr His Trp Glu Thr Arg Ala Gln Pro Ser Leu Ile Leu Tyr
1 5 10 15
Val Val Ser Asp Leu Arg Trp Met Glu Phe Arg Thr Ser Cys
20 25 30

<210> 769
<211> 106
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 769
Leu Ala Val Ser Thr Ser Phe Ile Cys Cys Ala Asp Ile Ser Thr Ala
1 5 10 15
Leu Pro Leu Gly Ser Ser Arg Pro Ala Pro Ala Pro Arg His Arg Glu
20 25 30

10004860.120701

His Glu His Gly His Gln Ala Arg Pro Pro Arg Leu Leu Xaa Thr Ser
 35 40 45

Leu Met Pro Leu Ser Thr Pro Ala Ala Ala Gln Leu Leu Trp Thr Gln
 50 55 60

Leu Thr Pro Met Gly Gly Arg Pro Gly Gly Arg His Ser Pro Pro Thr
 65 70 75 80

Leu His Thr Gly Pro Arg Ala Leu Pro Pro Gly Pro Pro His Pro Ser
 85 90 95

Leu His Val Ala Ala Leu Ser Leu Leu Arg
 100 105

<210> 770

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 770

Ala Pro Ala Val Pro His Gln Pro Pro Gly Thr Glu Ser Thr Ser Met
 1 5 10 15

Gly Thr Lys Pro Gly Leu Pro Gly Cys Ser Xaa Arg Pro Leu Cys His
 20 25 30

Tyr Gln His Gln Leu Xaa Pro Ser Tyr Phe Gly His Ser Ser Pro Pro
 35 40 45

Trp Gly Ala Val Leu Val Gly Val Thr Pro His Pro Arg Cys Thr Pro
 50 55 60

Ala Pro Gly Pro Cys Arg Leu Gly Leu His Thr His Pro Cys Thr Trp
 65 70 75 80

Gln Leu Cys Leu Cys
 85

<210> 771

<211> 28

<212> PRT

<213> Homo sapiens

<400> 771

Cys Ala Asp Ile Ser Thr Ala Leu Pro Leu Gly Ser Ser Arg Pro Ala

10004860.120701

1 5 10 15
 Pro Ala Pro Arg His Arg Glu His Glu His Gly His
 20 25

<210> 772
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 772
 Trp Thr Gln Leu Thr Pro Met Gly Gly Arg Pro Gly Gly Arg His Ser
 1 5 10 15

Pro Pro Thr Leu His Thr Gly Pro Arg
 20 25

<210> 773
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 773
 His Gln Pro Pro Gly Thr Glu Ser Thr Ser Met Gly Thr Lys Pro Gly
 1 5 10 15

Leu Pro Gly Cys
 20

<210> 774
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 774
 Ser Arg Gly Ser Leu Leu Pro Pro His Leu Pro His Arg Val Val Val
 1 5 10 15

Arg Val His Arg Gly Ala Lys Ser Leu Lys Ala Leu Arg Gln Tyr Ile
 20 25 30

Gly Ala Ala His Leu Gln Leu Pro Trp Asp Gly Lys Asp Pro Ala Arg
 35 40 45

Pro Leu Gly Ile Thr Leu Cys Leu Gln Met Glu Ile Gln Val Leu Gly
 50 55 60

<210> 775
 <211> 150
 <212> PRT
 <213> Homo sapiens

10004650-120701

Cys Cys Ser Phe Gly Phe Tyr Tyr Met Val Gly Ser Asp Thr Ala Glu
1 5 10 15

Ser Arg His Thr His Ser Pro Arg Ala Val Pro Glu Ser Ser Thr Ala
35 40 45

Pro Ala Gln Pro Leu Leu Leu Pro Leu Pro Ala Pro Gln Ala Arg Arg
50 55 60

Trp Ala Ser Asn Ala Asn Gly Trp Gly Trp Asp His Gln Arg Glu Gly
65 70 75 80

Gln Ala Asn Tyr Pro Tyr Ser Ala Arg Pro Ala Pro His Asn Leu His
85 90 95

Pro Gln Tyr Leu Asn Leu His Leu Gln Thr Gln Cys Tyr Ala Gln Gly
100 105 110

Ser Gly Trp Val Leu Pro Ile Pro Gly Gln Leu Lys Val Gly Gly Pro
115 120 125

Tyr Ile Leu Pro Glu Gly Leu Gln Gly Leu Cys Ser Ser Val His Pro
130 135 140

His	Asn	Asn	Pro	Val	Arg
145					150

<210> 776

<211> 25

<212> PRT

<213> Homo sapiens

<400> 776

His Arg Gly Ala Lys Ser Leu Lys Ala Leu Arg Gln Tyr Ile Gly Ala
1 5 10 15

Ala His Leu Gln Leu Pro Trp Asp Gly
20 25

<210> 777

<211> 21

<212> PRT

<213> Homo sapiens

<400> 777

Pro Ala Pro Gln Ala Arg Arg Trp Ala Ser Asn Ala Asn Gly Trp Gly
1 5 10 15

Trp Asp His Gln Arg
20

<210> 778
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 778
 His Pro Gln Tyr Leu Asn Leu His Leu Gln Thr Gln Cys Tyr Ala Gln
 1 5 10 15

Gly Ser Gly Trp Val Leu Pro
 20

<210> 779
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 779
 Thr Asn Gly Ile Met Gln Tyr Val Thr Phe Cys Val Trp Leu Ile Leu
 1 5 10 15

Phe Ser Ile Met Phe Leu Arg Phe Ile Gln Ala Val Ala Cys Ile Ser
 20 25 30

Thr Ser Phe Leu Phe Leu Ala Glu Tyr Tyr Ser Ile Ile Trp Ile Tyr
 35 40 45

His Asn Ser Phe Thr Tyr Ser Ser Phe Val Ser Ala Val Trp Leu Leu
 50 55 60

<210> 780
 <211> 123
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 780
 Tyr Asn Phe Met Phe Asn Phe Ser Lys Asn Cys Gln Lys Val Phe His

10004860-120701

1 5 10 15
 Ser Gly Cys Ile Ile Tyr Ile Pro Thr Gly Asn Val Gln Gly Phe Leu
 20 25 30
 Phe Phe His Ile Leu Ala Leu Thr Asn Thr Ser Phe Xaa Xaa Xaa Phe
 35 40 45
 Cys Phe Phe Ile Ile Ala Thr Leu Val Asp Val Lys Trp His Leu Ile
 50 55 60
 Val Leu Ile Cys Ile Ser Leu Met Thr Asn Asp Ile Ile Leu Phe Leu
 65 70 75 80
 Cys Ala Tyr Gly Ser Lys Val Phe Pro Trp Arg Asn Val Pro Ser Ser
 85 90 95
 Pro Leu Pro Phe Gln Asn Leu Val Ile Cys Leu Leu Leu Phe Ser Phe
 100 105 110
 Lys Lys Phe Trp Pro Gly Ala Val Ala His Leu
 115 120

<210> 781

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 781

Cys Val Thr Gln Ala Arg Val Gln Trp Arg Asp Leu Gly Ser Leu Gln
 1 5 10 15

Pro Pro Pro Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Leu Ser
 20 25 30

Arg Xaa Asp Tyr Met His Leu Pro Pro Arg Pro Ala Asn Phe Cys Ile
 35 40 45

Phe Ser Lys Met Gly Phe His His Val Gly Gln Ala Gly Leu Glu Val
 50 55 60

Leu Xaa Ser Ser Asp Leu Pro Ala Leu Ala Ser Gln Ser Ala Xaa Ile

10004560-12001

65

70

75

80

Thr Gly Glu Pro Leu Arg Leu Ala Arg Ile Ser
 85 90

<210> 782

<211> 25

<212> PRT

<213> Homo sapiens

<400> 782

Leu Pro Pro Arg Pro Ala Asn Phe Cys Ile Phe Ser Lys Met Gly Phe
 1 5 10 15

His His Val Gly Gln Ala Gly Leu Glu
 20 25

<210> 783

<211> 24

<212> PRT

<213> Homo sapiens

<400> 783

Leu Ile Leu Phe Ser Ile Met Phe Leu Arg Phe Ile Gln Ala Val Ala
 1 5 10 15

Cys Ile Ser Thr Ser Phe Leu Phe
 20

<210> 784

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 784

Ala Leu Val Pro Ser Pro Gln Gln Ile Leu Pro Ser Cys Phe Ser Leu
 1 5 10 15

Met Trp Gln Val Thr Thr Lys Ser Ala Leu Val Phe Phe Lys Cys Ile
 20 25 30

Tyr Ile Pro Phe Leu Ser Ala Pro Ser Leu Pro Arg Leu Glu Asn Cys
 35 40 45

Leu Ile Phe Cys Ser Leu Asp Val Gln Ser Gln Leu Val Phe Leu Ser
 50 55 60

Ser Pro Pro Val Ala Gly Val Leu Phe Phe Phe Leu Leu Ser Pro Leu
 65 70 75 80

10004860-120761

Leu Leu Ser Phe Tyr Val Gln Thr Gly Phe Ser Val
65 70 75

<210> 788
 <211> 119
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 788
 Gly Thr Ser Arg His Gly Gln Arg Pro Ile Ala Pro Gly Thr Pro Trp
 1 5 10 15
 Gln Arg Glu Pro Arg Val Glu Val Met Asp Pro Ala Gly Gly Pro Arg
 20 25 30
 Gly Val Leu Pro Arg Pro Cys Arg Xaa Leu Val Leu Asn Pro Arg
 35 40 45
 Gly Gly Lys Gly Lys Ala Leu Gln Leu Phe Arg Ser His Val Gln Pro
 50 55 60
 Leu Leu Ala Glu Ala Glu Ile Ser Phe Thr Leu Met Leu Thr Glu Arg
 65 70 75 80
 Arg Asn His Ala Arg Glu Leu Val Arg Ser Glu Glu Leu Gly Arg Trp
 85 90 95
 Xaa Ala Leu Val Val Met Xaa Gly Asp Gly Leu Met His Glu Val Val
 100 105 110
 Asn Gly Leu His Gly Ala Ala
 115

<210> 789
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 789
 Arg Pro Ile Ala Pro Gly Thr Pro Trp Gln Arg Glu Pro Arg Val Glu
 1 5 10 15
 Val Met Asp Pro Ala Gly Gly Pro
 20

10004860-120701

<210> 790
 <211> 15
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 790
 Ala Ser Gly Pro Leu Met Gly Xaa Ala Val Leu Lys Ile Phe Glu
 1 5 10 15

<210> 791
 <211> 18
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 791
 Leu Leu Arg Ser Ala Leu Xaa Ser Pro His Leu Pro Thr Pro Val Pro
 1 5 10 15

Leu Val

<210> 792
 <211> 69
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)

10004850 120701

<400> 792

Thr Gly Leu Ala Ser
65

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Arg Trp Gly Glu Xaa Arg Ala Glu Arg Ser Ser
50 55

<213> Homo sapiens

Arg Leu Ile Gln Tyr
20

<211> 13

<212> PRT
 <213> Homo sapiens

<400> 795
 Cys Glu Arg Ser Gly Tyr Thr Arg Met Ala Met Asp Thr
 1 5 10

<210> 796
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 796
 Thr Gly Ser Ile Leu Ala Val Gly Lys Lys Tyr Ser Leu Gly Ser Tyr
 1 5 10 15
 Ser Arg Gly Asp Trp His Met Arg Val Val Gly Leu Arg Gly Leu Gly
 20 25 30
 Ala Ser Thr Leu Gln Gly Leu Leu Ile Gly Ile Lys Pro Asn Lys Pro
 35 40 45
 Gln Gly Arg Gly Lys Leu Gln Gly Arg Ser Ser Arg Lys Asp Thr Val
 50 55 60
 Leu Trp Pro Ser Pro Glu His Pro His Met Val Ser Met Ala Ile Leu
 65 70 75 80
 Val Tyr Pro Asp Leu Ser His Tyr Ser Asn Pro His Ser Thr Pro Ala
 85 90 95
 Ala Leu Leu Gly Cys Trp Pro Pro Phe Arg Glu Gly Glu Ile Leu Gly
 100 105 110
 Leu Gln Arg Pro Gly Gln Trp Pro Glu Glu Arg Cys Asp Arg Pro Trp
 115 120 125
 Leu Pro Pro Cys
 130

<210> 797
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 797
 Gly Ser Tyr Ser Arg Gly Asp Trp His Met Arg Val Val Gly Leu Arg
 1 5 10 15
 Gly Leu Gly Ala Ser Thr Leu Gln Gly Leu Leu Ile Gly
 20 25

<210> 798
 <211> 27
 <212> PRT

10004300 "LEU" 10

<213> Homo sapiens

<400> 798

Ser Thr Pro Ala Ala Leu Leu Gly Cys Trp Pro Pro Phe Arg Glu Gly
1 5 10 15

Glu Ile Leu Gly Leu Gln Arg Pro Gly Gln Trp
20 25

<210> 799

<211> 44

<212> PRT

<213> Homo sapiens

<400> 799

Thr Met Gly Thr Trp Val Asp Trp Leu Thr Thr Asn Thr Ala His Thr
1 5 10 15

Pro Ala Ile Ala Ala Ala Ile Cys Ala Glu Asp Phe Pro Gln Arg His
20 25 30

Cys Gly Ser Val Glu Arg Ser Pro Asp Gln Ala Cys
35 40

<210> 800

<211> 23

<212> PRT

<213> Homo sapiens

<400> 800

Thr Asn Thr Ala His Thr Pro Ala Ile Ala Ala Ala Ile Cys Ala Glu
1 5 10 15

Asp Phe Pro Gln Arg His Cys
20

<210> 801

<211> 15

<212> PRT

<213> Homo sapiens

<400> 801

Met Ser Pro Glu Thr Lys Gly Lys Gly Arg Ser Phe Pro Leu Lys
1 5 10 15

<210> 802

<211> 82

<212> PRT

<213> Homo sapiens

<400> 802

Cys Gln Asn Lys Cys Ser Glu Thr Thr Cys Gly Arg Thr Arg Arg Glu
1 5 10 15

10004350-120701

Ser Asn Lys Gln Ala Arg Ala Met Ala Phe Ile Phe Lys Gly Lys Asp
 20 25 30

Leu Pro Phe Pro Phe Val Ser Gly Asp Ile Gln Pro Lys Ser Ser Gly
 35 40 45

Ser Met Ala Pro Asp Gln Gln Gly Leu Cys Tyr Leu Gly Ser Trp Arg
 50 55 60

Ser His Leu Tyr Cys Arg Leu Leu Pro Met Asp Gln Val Ser Pro Ala
 65 70 75 80

Leu Cys

<210> 803

<211> 63

<212> PRT

<213> Homo sapiens

<400> 803

Lys Pro Ser Pro Gly Leu Ala Tyr Cys Ser Leu Ser Trp Ser Phe His
 1 5 10 15

Met Leu Phe Leu Asn Ile Cys Ser Gly Ile Thr Ile Pro Val Ile Leu
 20 25 30

Ser Ser Gly Pro Ser His Leu Ser Thr Leu Ser Leu Ala Val Ser Pro
 35 40 45

Arg Arg Pro Gly Thr Trp Val Lys Ala Cys Ser Cys Trp Cys Pro
 50 55 60

<210> 804

<211> 25

<212> PRT

<213> Homo sapiens

<400> 804

Asn Lys Gln Ala Arg Ala Met Ala Phe Ile Phe Lys Gly Lys Asp Leu
 1 5 10 15

Pro Phe Pro Phe Val Ser Gly Asp Ile
 20 25

<210> 805

<211> 21

<212> PRT

<213> Homo sapiens

<400> 805

Tyr Leu Gly Ser Trp Arg Ser His Leu Tyr Cys Arg Leu Leu Pro Met
 1 5 10 15

Asp Gln Val Ser Pro

10004560-120701

20

<210> 806
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 806
 Gly Ile Thr Ile Pro Val Ile Leu Ser Ser Gly Pro Ser His Leu Ser
 1 5 10 15

Thr Leu Ser Leu Ala Val Ser Pro Arg
 20 25

<210> 807
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 807
 Leu Glu Arg Leu Gly Val Gly Arg Gly Leu Glu
 1 5 10

<210> 808
 <211> 67
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 808
 Asp Leu Pro Pro Cys Trp Thr Thr Leu Lys Glu His Gln Cys Phe Met
 1 5 10 15

Gln Tyr Gln Leu Phe Thr Ile Gln Cys Lys Val Val Glu Gln Thr Ile
 20 25 30

Cys Glu Asp Glu Arg Lys Met Glu Ser Thr Cys Leu Thr Leu Ala Xaa
 35 40 45

Pro Glu Ser Val Arg Gln Xaa Cys Pro Ala Thr Leu Trp Ser Ser Met
 50 55 60

Asn Ile Cys
 65

10004860-120701

<210> 809
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 809
 Thr Asn Arg Val Xaa Leu Ser Trp Arg Lys Glu Glu Gln Arg Met Gly
 1 5 10 15
 Arg Thr Glu Thr Gly Ala Lys Asp Lys Gly Arg Asp Phe Leu Glu Arg
 20 25 30
 Gly Ser Arg Gly Trp Gln Leu Tyr Thr Gly Ala Ala Asp Thr Glu Glu
 35 40 45
 Val

<210> 810
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 810
 Glu Gln Val Leu Ala Leu Leu Trp Pro Arg Phe Glu Leu Ile Leu Glu
 1 5 10 15
 Met Asn Val Gln Ser Val Arg Ser Thr Asp Pro Gln Arg Leu Gly Gly
 20 25 30
 Leu Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu Phe Ser
 35 40 45
 Ser Ala Leu Val Ser Ile Asn Gln Thr Ile Pro Asn Glu Arg Thr Met
 50 55 60
 Gln Leu Leu Gly Gln Leu Gln Val Glu Val Glu Asn Phe Val Leu Arg
 65 70 75 80
 Val Ala Ala Glu Phe Ser Ser Arg Lys Glu Gln Leu Val Phe Leu Ile
 85 90 95
 Asn Asn Tyr Asp Met Met Leu Gly Val Leu Met Glu Arg Ala Ala Asp
 100 105 110
 Asp Ser Lys Glu Val Glu Ser Phe Gln Gln Leu Leu Asn Ala Arg Thr
 115 120 125
 Gln Glu Phe Ile Glu Glu Leu Leu Ser Pro Pro Phe Gly Gly Leu Val
 130 135 140
 Ala Phe Val Lys Glu Ala Glu Ala Leu Ile Glu Arg Gly Gln Ala Glu

10004360-120701

145 150 155 160
 Arg Leu Arg Gly Glu Glu Ala Arg Val Thr Gln Leu Ile Arg Gly Phe
 165 170 175
 Gly Ser Ser Trp Lys Ser Ser Val Glu Ser Leu Ser Gln Asp Val Met
 180 185 190
 Arg Ser Phe Thr Asn Phe Arg Asn Gly Thr Ser Ile Ile Gln Gly
 195 200 205

<210> 811
 <211> 110
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 811
 Ala Leu Leu Lys Tyr Arg Phe Phe Tyr Gln Phe Leu Leu Gly Asn Glu
 1 5 10 15
 Arg Ala Thr Ala Lys Glu Ile Arg Asp Glu Tyr Val Glu Thr Leu Ser
 20 25 30
 Lys Ile Tyr Leu Ser Tyr Tyr Arg Ser Tyr Leu Gly Arg Leu Met Lys
 35 40 45
 Val Gln Tyr Glu Glu Val Ala Glu Lys Asp Asp Leu Met Gly Val Glu
 50 55 60
 Asp Thr Ala Lys Lys Gly Phe Xaa Ser Lys Pro Ser Leu Arg Ser Arg
 65 70 75 80
 Asn Thr Ile Phe Thr Leu Gly Thr Arg Gly Ser Val Ile Ser Pro Thr
 85 90 95
 Glu Leu Glu Ala Pro Ile Leu Val Pro His Thr Ala Gln Arg
 100 105 110

<210> 812
 <211> 97
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (38)

1000439001

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 812

Glu Gln Arg Tyr Pro Phe Glu Ala Leu Phe Arg Ser Gln His Tyr Xaa
1 5 10 15

Leu Leu Asp Asn Ser Cys Arg Glu Tyr Leu Phe Ile Cys Glu Phe Phe
20 25 30

Val Val Ser Gly Pro Xaa Ala His Asp Leu Phe His Ala Val Met Gly
35 40 45

Arg Thr Leu Ser Met Thr Leu Lys His Leu Asp Ser Tyr Leu Ala Asp
50 55 60

Cys Tyr Asp Ala Ile Ala Val Phe Leu Cys Ile His Ile Val Leu Arg
65 70 75 80

Phe Arg Asn Ile Ala Ala Lys Arg Asp Val Pro Ala Leu Asp Arg Tyr
85 90 95

Trp

<210> 813

<211> 26

<212> PRT

<213> Homo sapiens

<400> 813

Gly Gly Leu Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu
1 5 10 15

Phe Ser Ser Ala Leu Val Ser Ile Asn Gln
20 25

<210> 814

<211> 20

<212> PRT

<213> Homo sapiens

<400> 814

Ser Arg Lys Glu Gln Leu Val Phe Leu Ile Asn Asn Tyr Asp Met Met
1 5 10 15

Leu Gly Val Leu
20

<210> 815

<211> 411

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

10004560-120701

<222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (149)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 815
 Ala Leu Leu Lys Tyr Arg Phe Phe Tyr Gln Phe Leu Leu Gly Asn Glu
 1 5 10 15
 Arg Ala Thr Ala Lys Glu Ile Arg Asp Glu Tyr Val Glu Thr Leu Ser
 20 25 30
 Lys Ile Tyr Leu Ser Tyr Tyr Arg Ser Tyr Leu Gly Arg Leu Met Lys
 35 40 45
 Val Gln Tyr Glu Glu Val Ala Glu Lys Asp Asp Leu Met Gly Val Glu
 50 55 60
 Asp Thr Ala Lys Lys Gly Phe Xaa Ser Lys Pro Ser Leu Arg Ser Arg
 65 70 75 80
 Asn Thr Ile Phe Thr Leu Gly Thr Arg Gly Ser Val Ile Ser Pro Thr
 85 90 95
 Glu Leu Glu Ala Pro Ile Leu Val Pro His Thr Ala Gln Arg Xaa Glu
 100 105 110
 Gln Arg Tyr Pro Phe Glu Ala Leu Phe Arg Ser Gln His Tyr Xaa Leu
 115 120 125
 Leu Asp Asn Ser Cys Arg Glu Tyr Leu Phe Ile Cys Glu Phe Phe Val
 130 135 140
 Val Ser Gly Pro Xaa Ala His Asp Leu Phe His Ala Val Met Gly Arg
 145 150 155 160
 Thr Leu Ser Met Thr Leu Lys His Leu Asp Ser Tyr Leu Ala Asp Cys
 165 170 175
 Tyr Asp Ala Ile Ala Val Phe Leu Cys Ile His Ile Val Leu Arg Phe
 180 185 190
 Arg Asn Ile Ala Ala Lys Arg Asp Val Pro Ala Leu Asp Arg Tyr Trp
 195 200 205

10004360-120701

Glu Gln Val Leu Ala Leu Leu Trp Pro Arg Phe Glu Leu Ile Leu Glu
210 215 220

Met Asn Val Gln Ser Val Arg Ser Thr Asp Pro Gln Arg Leu Gly Gly
225 230 235 240

Leu Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu Phe Ser
245 250 255

Ser Ala Leu Val Ser Ile Asn Gln Thr Ile Pro Asn Glu Arg Thr Met
260 265 270

Gln Leu Leu Gly Gln Leu Gln Val Glu Val Glu Asn Phe Val Leu Arg
275 280 285

Val Ala Ala Glu Phe Ser Ser Arg Lys Glu Gln Leu Val Phe Leu Ile
290 295 300

Asn Asn Tyr Asp Met Met Leu Gly Val Leu Met Glu Arg Ala Ala Asp
305 310 315 320

Asp Ser Lys Glu Val Glu Ser Phe Gln Gln Leu Leu Asn Ala Arg Thr
325 330 335

Gln Glu Phe Ile Glu Glu Leu Leu Ser Pro Pro Phe Gly Gly Leu Val
340 345 350

Ala Phe Val Lys Glu Ala Glu Ala Leu Ile Glu Arg Gly Gln Ala Glu
355 360 365

Arg Leu Arg Gly Glu Glu Ala Arg Val Thr Gln Leu Ile Arg Gly Phe
370 375 380

Gly Ser Ser Trp Lys Ser Ser Val Glu Ser Leu Ser Gln Asp Val Met
385 390 395 400

Arg Ser Phe Thr Asn Phe Arg Asn Gly Thr Ser
405 410

<210> 816

<211> 82

<212> PRT

<213> Homo sapiens

<400> 816

Pro Ala Asp Leu Arg Ala Val Ser Gly Thr Ser Glu Val Gly Leu Met
1 5 10 15

Leu Leu Glu Leu His His Lys Val Val Asn Val Asp Glu Leu Ser Pro
20 25 30

Gly Arg Glu Gly Ser Glu Leu Arg Leu Gly Gln His Pro Val Glu Ala
35 40 45

Met Ile Glu Leu Asp Gln Leu Gly Gln Arg Ser Leu Asn Asp Thr Gly
50 55 60

10004860.120701

Ala Ile Ser Glu Val Gly Glu Thr Pro His Tyr Ile Leu Thr Gln Arg
 65 70 75 80

Phe His

<210> 817
 <211> 120
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 817
 Gly Pro His Pro Gly Ala Ser His Ser Ala Ala Xaa Glu Gln Arg Tyr
 1 5 10 15

Pro Phe Glu Ala Leu Phe Arg Ser Gln His Tyr Xaa Leu Leu Asp Asn
 20 25 30

Ser Cys Arg Glu Tyr Leu Phe Ile Cys Glu Phe Phe Val Val Ser Gly
 35 40 45

Pro Xaa Ala His Asp Leu Phe His Ala Val Met Gly Arg Thr Leu Ser
 50 55 60

Met Thr Leu Lys His Leu Asp Ser Tyr Leu Ala Asp Cys Tyr Asp Ala
 65 70 75 80

Ile Ala Val Phe Leu Cys Ile His Ile Val Leu Arg Phe Arg Asn Ile
 85 90 95

Ala Ala Lys Arg Asp Val Pro Ala Leu Asp Arg Tyr Trp Gly Thr Gly
 100 105 110

Ala Cys Leu Ala Met Ala Thr Val
 115 120

<210> 818
 <211> 303
 <212> PRT
 <213> Homo sapiens

10004500120701

<400> 818

Tyr Glu Gly Lys Glu Phe Asp Tyr Val Phe Ser Ile Asp Val Asn Glu
 1 5 10 15
 Gly Gly Pro Ser Tyr Lys Leu Pro Tyr Asn Thr Ser Asp Asp Pro Trp
 20 25 30
 Leu Thr Ala Tyr Asn Phe Leu Gln Lys Asn Asp Leu Asn Pro Met Phe
 35 40 45
 Leu Asp Gln Val Ala Lys Phe Ile Ile Asp Asn Thr Lys Gly Gln Met
 50 55 60
 Leu Gly Leu Gly Asn Pro Ser Phe Ser Asp Pro Phe Thr Gly Gly Gly
 65 70 75 80
 Arg Tyr Val Pro Gly Ser Ser Gly Ser Ser Asn Thr Leu Pro Thr Ala
 85 90 95
 Asp Pro Phe Thr Gly Ala Gly Arg Tyr Val Pro Gly Ser Ala Ser Met
 100 105 110
 Gly Thr Thr Met Ala Gly Val Asp Pro Phe Thr Gly Asn Ser Ala Tyr
 115 120 125
 Arg Ser Ala Ala Ser Lys Thr Met Asn Ile Tyr Phe Pro Lys Lys Glu
 130 135 140
 Ala Val Thr Phe Asp Gln Ala Asn Pro Thr Gln Ile Leu Gly Lys Leu
 145 150 155 160
 Lys Glu Leu Asn Gly Thr Ala Pro Glu Glu Lys Lys Leu Thr Glu Asp
 165 170 175
 Asp Leu Ile Leu Leu Glu Lys Ile Leu Ser Leu Ile Cys Asn Ser Ser
 180 185 190
 Ser Glu Lys Pro Thr Val Gln Gln Leu Gln Ile Leu Trp Lys Ala Ile
 195 200 205
 Asn Cys Pro Glu Asp Ile Val Phe Pro Ala Leu Asp Ile Leu Arg Leu
 210 215 220
 Ser Ile Lys His Pro Ser Val Asn Glu Asn Phe Cys Asn Glu Lys Glu
 225 230 235 240
 Gly Ala Gln Phe Ser Ser His Leu Ile Asn Leu Leu Asn Pro Lys Gly
 245 250 255
 Lys Pro Ala Asn Gln Leu Leu Ala Leu Arg Thr Phe Cys Asn Cys Phe
 260 265 270
 Val Gly Gln Ala Gly Gln Lys Leu Met Met Ser Gln Arg Glu Ser Leu
 275 280 285
 Met Ser His Ala Ile Glu Leu Lys Ser Gly Ser Asn Lys Asn Ile
 290 295 300

10004860-120701

<210> 819
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 819
 His Ile Ala Leu Ala Thr Leu Ala Leu Asn Tyr Ser Val Cys Phe His
 1 5 10 15

Lys Asp

<210> 820
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 820
 His Asn Ile Glu Gly Lys Ala Gln Cys Leu Ser Leu Ile Ser Thr Ile
 1 5 10 15

Leu Glu Val Val Gln Asp Leu Glu Ala Thr Phe Arg Leu Leu Val Ala
 20 25 30

Leu Gly Thr Leu Ile Ser Asp Asp Ser Asn Ala Val Gln Leu Ala Lys
 35 40 45

Ser

<210> 821
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 821
 Leu Gly Val Asp Ser Gln Ile Lys Lys Tyr Ser Ser Val Ser Glu Pro
 1 5 10 15

Ala Lys Val Ser Glu Cys Cys Arg Phe Ile Leu Asn Leu Leu
 20 25 30

<210> 822
 <211> 400
 <212> PRT
 <213> Homo sapiens

<400> 822
 Tyr Glu Gly Lys Glu Phe Asp Tyr Val Phe Ser Ile Asp Val Asn Glu
 1 5 10 15

Gly Gly Pro Ser Tyr Lys Leu Pro Tyr Asn Thr Ser Asp Asp Pro Trp
 20 25 30

10004560-120701

Leu Thr Ala Tyr Asn Phe Leu Gln Lys Asn Asp Leu Asn Pro Met Phe
 35 40 45
 Leu Asp Gln Val Ala Lys Phe Ile Ile Asp Asn Thr Lys Gly Gln Met
 50 55 60
 Leu Gly Leu Gly Asn Pro Ser Phe Ser Asp Pro Phe Thr Gly Gly Gly
 65 70 75 80
 Arg Tyr Val Pro Gly Ser Ser Gly Ser Ser Asn Thr Leu Pro Thr Ala
 85 90 95
 Asp Pro Phe Thr Gly Ala Gly Arg Tyr Val Pro Gly Ser Ala Ser Met
 100 105 110
 Gly Thr Thr Met Ala Gly Val Asp Pro Phe Thr Gly Asn Ser Ala Tyr
 115 120 125
 Arg Ser Ala Ala Ser Lys Thr Met Asn Ile Tyr Phe Pro Lys Lys Glu
 130 135 140
 Ala Val Thr Phe Asp Gln Ala Asn Pro Thr Gln Ile Leu Gly Lys Leu
 145 150 155 160
 Lys Glu Leu Asn Gly Thr Ala Pro Glu Glu Lys Lys Leu Thr Glu Asp
 165 170 175
 Asp Leu Ile Leu Leu Glu Lys Ile Leu Ser Leu Ile Cys Asn Ser Ser
 180 185 190
 Ser Glu Lys Pro Thr Val Gln Gln Leu Gln Ile Leu Trp Lys Ala Ile
 195 200 205
 Asn Cys Pro Glu Asp Ile Val Phe Pro Ala Leu Asp Ile Leu Arg Leu
 210 215 220
 Ser Ile Lys His Pro Ser Val Asn Glu Asn Phe Cys Asn Glu Lys Glu
 225 230 235 240
 Gly Ala Gln Phe Ser Ser His Leu Ile Asn Leu Leu Asn Pro Lys Gly
 245 250 255
 Lys Pro Ala Asn Gln Leu Leu Ala Leu Arg Thr Phe Cys Asn Cys Phe
 260 265 270
 Val Gly Gln Ala Gly Gln Lys Leu Met Met Ser Gln Arg Glu Ser Leu
 275 280 285
 Met Ser His Ala Ile Glu Leu Lys Ser Gly Ser Asn Lys Asn Ile His
 290 295 300
 Ile Ala Leu Ala Thr Leu Ala Leu Asn Tyr Ser Val Cys Phe His Lys
 305 310 315 320
 Asp His Asn Ile Glu Gly Lys Ala Gln Cys Leu Ser Leu Ile Ser Thr
 325 330 335
 Ile Leu Glu Val Val Gln Asp Leu Glu Ala Thr Phe Arg Leu Leu Val

10004460-120701

340

345

350

Ala Leu Gly Thr Leu Ile Ser Asp Asp Ser Asn Ala Val Gln Leu Ala
 355 360 365

Lys Ser Leu Gly Val Asp Ser Gln Ile Lys Lys Tyr Ser Ser Val Ser
 370 375 380

Glu Pro Ala Lys Val Ser Glu Cys Cys Arg Phe Ile Leu Asn Leu Leu
 385 390 395 400

<210> 823

<211> 29

<212> PRT

<213> Homo sapiens

<400> 823

Leu Asn Leu Leu Leu Ile Thr Gln Lys Val Lys Cys Trp Asp Leu Gly
 1 5 10 15

Ile Pro Ala Phe Gln Ile His Leu Gln Val Val Val Gly
 20 25

<210> 824

<211> 29

<212> PRT

<213> Homo sapiens

<400> 824

Ile Lys His Pro Ser Val Asn Glu Asn Phe Cys Asn Glu Lys Glu Gly
 1 5 10 15

Ala Gln Phe Ser Ser His Leu Ile Asn Leu Leu Asn Pro
 20 25

<210> 825

<211> 22

<212> PRT

<213> Homo sapiens

<400> 825

Ala Ile Glu Leu Lys Ser Gly Ser Asn Lys Asn Ile His Ile Ala Leu
 1 5 10 15

Ala Thr Leu Ala Leu Asn
 20

<210> 826

<211> 23

<212> PRT

<213> Homo sapiens

1000450-120701

<400> 826

Val Gln Leu Ala Lys Ser Leu Gly Val Asp Ser Gln Ile Lys Lys Tyr
 1 5 10 15

Ser Ser Val Ser Glu Pro Ala
 20

<210> 827

<211> 26

<212> PRT

<213> Homo sapiens

<400> 827

Tyr Glu Gly Lys Glu Phe Asp Tyr Val Phe Ser Ile Asp Val Asn Glu
 1 5 10 15

Gly Gly Pro Ser Tyr Lys Leu Pro Tyr Asn
 20 25

<210> 828

<211> 26

<212> PRT

<213> Homo sapiens

<400> 828

Ala Tyr Asn Phe Leu Gln Lys Asn Asp Leu Asn Pro Met Phe Leu Asp
 1 5 10 15

Gln Val Ala Lys Phe Ile Ile Asp Asn Thr
 20 25

<210> 829

<211> 15

<212> PRT

<213> Homo sapiens

<400> 829

Ser Phe Ser Asp Pro Phe Thr Gly Gly Gly Arg Tyr Val Pro Gly
 1 5 10 15

<210> 830

<211> 11

<212> PRT

<213> Homo sapiens

<400> 830

Thr Ala Asp Pro Phe Thr Gly Ala Gly Arg Tyr
 1 5 10

<210> 831

<211> 19

<212> PRT

10004860-120701

<213> Homo sapiens

<400> 831

Thr Thr Met Ala Gly Val Asp Pro Phe Thr Gly Asn Ser Ala Tyr Arg
1 5 10 15

Ser Ala Ala

<210> 832

<211> 9

<212> PRT

<213> Homo sapiens

<400> 832

Asn Ile Tyr Phe Pro Lys Lys Glu Ala
1 5

<210> 833

<211> 19

<212> PRT

<213> Homo sapiens

<400> 833

Thr Phe Asp Gln Ala Asn Pro Thr Gln Ile Leu Gly Lys Leu Lys Glu
1 5 10 15

Leu Asn Gly

<210> 834

<211> 30

<212> PRT

<213> Homo sapiens

<400> 834

Pro Glu Asp Ile Val Phe Pro Ala Leu Asp Ile Leu Arg Leu Ser Ile
1 5 10 15

Lys His Pro Ser Val Asn Glu Asn Phe Cys Asn Glu Lys Glu
20 25 30

<210> 835

<211> 31

<212> PRT

<213> Homo sapiens

<400> 835

Gln Phe Ser Ser His Leu Ile Asn Leu Leu Asn Pro Lys Gly Lys Pro
1 5 10 15

Ala Asn Gln Leu Leu Ala Leu Arg Thr Phe Cys Asn Cys Phe Val
20 25 30

10004360-120701

<210> 836
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 836
 Gln Ala Gly Gln Lys Leu Met Met Ser Gln Arg Glu Ser Leu Met Ser
 1 5 10 15
 His Ala Ile Glu Leu Lys Ser Gly Ser Asn
 20 25

<210> 837
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 837
 Tyr Pro Asn Gln Asp Gly Asp Ile Leu Arg Asp Gln Val Leu His Glu
 1 5 10 15
 His Ile Gln Arg Leu Ser Lys Val Val Thr Ala Asn His Arg Ala Leu
 20 25 30
 Gln Ile Pro Glu Val Tyr Leu Arg Glu Ala Pro Trp Pro Ser Ala Gln
 35 40 45
 Ser Glu Ile Arg Thr Ile Ser Ala Tyr Lys Thr Pro Arg Asp Lys Val
 50 55 60
 Gln Cys Ile Leu Arg Met Cys Ser Thr Ile Met Asn Leu Leu Ser Leu
 65 70 75 80
 Ala Asn Glu Asp Ser Val Pro Gly Ala Asp Asp Phe Val Pro Val Leu
 85 90 95
 Val Phe Val Leu Ile Lys Ala Asn Pro Pro Cys Leu Leu Ser Thr Val
 100 105 110
 Gln Tyr Ile Ser Ser Phe Tyr Ala Ser Cys Leu Ser Gly Glu Glu Ser
 115 120 125
 Tyr Trp Trp Met Gln Phe Thr Ala Ala Val Glu
 130 135

<210> 838
 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 838
 Tyr Pro Asn Gln Asp Gly Asp Ile Leu Arg Asp Gln Val Leu His Glu
 1 5 10 15
 His Ile Gln Arg Leu Ser Lys Val Val Thr Ala Asn His Arg Ala Leu

10004660-100701

20										25										30													
Gln	Ile	Pro	Glu	Val	Tyr	Leu	Arg	Glu	Ala	Pro	Trp	Pro	Ser	Ala	Gln																		
			35				40					45																					
Ser	Glu	Ile	Arg	Thr	Ile	Ser	Ala	Tyr	Lys	Thr	Pro	Arg	Asp	Lys	Val																		
	50					55				60																							
Gln	Cys	Ile	Leu	Arg	Met	Cys	Ser	Thr	Ile	Met	Asn	Leu	Leu	Ser	Leu																		
	65				70					75					80																		
Ala	Asn	Glu	Asp	Ser	Val	Pro	Gly	Ala	Asp	Asp	Phe	Val	Pro	Val	Leu																		
				85				90					95																				
Val	Phe	Val	Leu	Ile	Lys	Ala	Asn	Pro	Pro	Cys	Leu	Leu	Ser	Thr	Val																		
		100					105						110																				
Gln	Tyr	Ile	Ser	Ser	Phe	Tyr	Ala	Ser	Cys	Leu	Ser	Gly	Glu	Glu	Ser																		
	115						120					125																					
Tyr	Trp	Trp	Met	Gln	Phe	Thr	Ala	Ala	Val	Glu	Phe	Ile	Lys	Thr	Ile																		
	130					135					140																						

<210> 839
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 839
 Tyr Pro Asn Gln Asp Gly Asp Ile Leu Arg Asp Gln Val Leu
 1 5 10

<210> 840
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 840
 Glu Ala Pro Trp Pro Ser Ala Gln Ser Glu Ile
 1 5 10

<210> 841
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 841
 Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln Phe Thr Ala Ala Val Glu
 1 5 10 15

Phe Ile Lys Thr Ile
 20

1000450.120701

<210> 842
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 842
 Ala Asp Asp Phe Val Pro Val Leu Val Phe Val Leu Ile Lys Ala Asn
 1 5 10 15

Pro Pro

<210> 843
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 843
 Tyr Lys Thr Pro Arg Asp Lys Val Gln Cys Ile Leu
 1 5 10

<210> 844
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 844
 Gly Ala Asp Asp Phe Val Pro Val Leu Val Phe Val Leu Ile Lys
 1 5 10 15

<210> 845
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 845
 Pro Val Leu Val Phe Val Leu Ile Lys Ala Asn Pro
 1 5 10

<210> 846
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 846
 Ser Ala Arg Ala Ser Thr Gln Pro Pro Ala Gly Gln His Pro Gly Pro
 1 5 10 15

Cys

10004850-120701

<210> 847
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 847
 Met Pro Gly Arg Trp Arg Trp Gln Arg Asp Met His Pro Ala Arg Lys
 1 5 10 15
 Leu Leu Ser Leu Leu Phe Leu Ile Leu Met Gly Thr Glu Leu Thr Gln
 20 25 30

Asp

<210> 848
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 848
 Ser Ala Ala Pro Asp Ser Leu Leu Arg Ser Ser Lys Gly Ser Thr Arg
 1 5 10 15

Gly Ser Leu

<210> 849
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 849
 Ala Ala Ile Val Ile Trp Arg Gly Lys Ser Glu Ser Arg Ile Ala Lys
 1 5 10 15

Thr Pro Gly Ile
 20

<210> 850
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 850
 Pro Leu Gly Ile Thr Leu Pro Leu Gly Ala Pro Glu Thr Gly Gly Gly
 1 5 10 15

Asp

<210> 851
 <211> 20
 <212> PRT

10004350-120704



<213> Homo sapiens

<400> 851

Cys Ala Ala Glu Thr Trp Lys Gly Ser Gln Arg Ala Gly Gln Leu Cys
1 5 10 15

Ala Leu Leu Ala
20

<210> 852

<211> 20

<212> PRT

<213> Homo sapiens

<400> 852

Phe Arg Gly Gly Gly Thr Leu Val Leu Pro Pro Thr His Thr Pro Glu
1 5 10 15

Trp Leu Ile Leu.
20

<210> 853

<211> 28

<212> PRT

<213> Homo sapiens

<400> 853

Asn Ser Ala Arg Ala Ser Thr Gln Pro Pro Ala Gly Gln His Pro Gly
1 5 10 15

Pro Cys Met Pro Gly Arg Trp Arg Trp Gln Arg Asp.
20 25

<210> 854

<211> 80

<212> PRT

<213> Homo sapiens

<400> 854

Tyr Ile Val Gln Gly Thr Thr Ser Pro Phe Glu Met Pro Thr Ile Pro
1 5 10 15

Thr Pro Ala Arg His Arg Ala Pro His Ser Pro Pro Ala Gly His Val
20 25 30

Ala Thr Ala Pro Gln Ala Leu His Ile Lys Pro Ala Met His Thr Ala
35 40 45

Gly Arg His Ala Gly Cys Pro Ser Arg Ser Gln Arg His Asn Pro His
50 55 60

Arg Leu Phe Leu Glu Pro Pro Arg Ala Ala Leu Cys Pro Lys Gly Gly
65 70 75 80

10004860-120701

<210> 855
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 855
 Ala Ser Asn Ala His Ser Trp Pro Ala Arg Trp Leu Pro Phe Gln Val
 1 5 10 15

Ser Ala Ala Gln Ser Pro Pro Pro Val Ser Gly Ala Pro Lys Gly Ser
 20 25 30

Val Met Pro Lys Gly Arg Met Ser His Ser Gly Val Cys Val Gly Gly
 35 40 45

Arg Thr Lys Val Pro Pro Pro Leu Lys Met Pro Gly Val Leu Ala Ile
 50 55 60

Arg Leu Ser Leu Phe Pro Leu Gln Met Thr Ile Ala Ala Lys Asp Pro
 65 70 75 80

Leu Val Leu Pro Phe Glu Leu Leu Ser Arg Glu Ser Gly Ala Ala Glu
 85 90 95

Ser

<210> 856
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 856
 Gly Arg Met Ser His Ser Gly Val Cys Val Gly Gly Arg Thr Lys Val
 1 5 10 15

Pro Pro Pro Leu Lys Met Pro Gly Val Leu Ala
 20 25

<210> 857
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 857
 Gly His Gln Thr Ala Pro Glu Thr Pro Ser Arg Ser Asp
 1 5 10

<210> 858
 <211> 5
 <212> PRT
 <213> Homo sapiens

1000455-1200

<400> 858

Ser Gln Thr Asp Arg

1 5

<210> 859

<211> 22

<212> PRT

<213> Homo sapiens

<400> 859

Asn Ile Tyr Phe Lys Glu Lys Arg Lys Arg Gly Gly Ala Lys Met Ala

1 5 10 15

Gly Ala Ile Ile Glu Asn

20

<210> 860

<211> 147

<212> PRT

<213> Homo sapiens

<400> 860

Val Tyr Leu Cys Ala Tyr Thr Ser Thr Ile Asn Val Thr Val Thr Thr

1 5 10 15

Ala Asn Ala Lys Leu Ile Asn Met Cys Cys Leu Val Asp Ser Asn Thr

20 25 30

Arg Ser Cys Val Val Ile Asp Glu Gly Ile Phe Arg Ser Ala Glu Gln

35 40 45

Phe Leu Ile Lys Phe Arg Asn Lys Gln Ser Thr Ile Phe Pro Arg Phe

50 55 60

Thr Trp Glu Leu His Ser Ile Gly Leu Val Phe Ser Ile Val Phe Met

65 70 75 80

Gly Trp Cys Ile Gln Glu His Gln Ser Lys Asp Ile Gln Ile Pro His

85 90 95

Pro Ile Asp Ala Cys Glu Lys Gly Thr Val His Leu Asp Cys Asp Ala

100 105 110

Ala Pro Phe Pro Met Ala Phe Arg Tyr Leu Thr Asn Asp Glu Glu Asp

115 120 125

Asp Ser His Gly Ser Ala Gly Gln Gly Asp Lys His Glu Glu Leu Glu

130 135 140

Pro Lys Asn

145

<210> 861

<211> 112

10004860-120701

<212> PRT

<213> Homo sapiens

<400> 861

Lys Met Pro Cys Arg Met Ser Pro Asn Ser Ser Ile Gln Val Gln Ser
 1 5 10 15

Asn Pro Met Glu Asn His Ser Thr Gly Ile Leu Ile Lys Val Met Glu
 20 25 30

Ile Pro Arg Ala Lys Met Thr Phe Ser Arg Ser Thr Gly Gly Arg Asp
 35 40 45

Ile Met Val Ile Leu Leu Gln Tyr His Thr Ile Met Met Lys Met Leu
 50 55 60

Gly Val Arg Lys Val Phe Met Ala Asn His Thr Leu Val Lys Pro Pro
 65 70 75 80

Phe Trp Trp Ile Pro Thr Asn Arg Ile Ser Phe Ile Ser Pro Ile Pro
 85 90 95

Thr Leu Ile Phe Phe Phe Ser Phe Thr Gly Ser Arg Met Phe Lys Arg
 100 105 110

<210> 862

<211> 74

<212> PRT

<213> Homo sapiens

<400> 862

Thr Thr Lys Ser Glu Lys Met Gln Lys Ser Pro Trp Thr Phe Pro Trp
 1 5 10 15

Leu Thr Val Met Thr His Leu Leu Ser Gly Leu Lys Trp Pro Met Lys
 20 25 30

Glu Tyr His Gly Asn Ser Asn Ala Pro Ser His Leu Pro Arg Leu Gln
 35 40 45

Ser Met Arg Ala Val Thr Met Asn Val Met Ser Phe Leu Ser Trp Lys
 50 55 60

Leu Gly Leu Trp Pro Ile Ser Phe Thr Phe
 65 70

<210> 863

<211> 31

<212> PRT

<213> Homo sapiens

<400> 863

Ile Lys Phe Arg Asn Lys Gln Ser Thr Ile Phe Pro Arg Phe Thr Trp

10/02/00 09:40:00

1 5 10 15
 Glu Leu His Ser Ile Gly Leu Val Phe Ser Ile Val Phe Met Gly
 20 25 30

<210> 864
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 864
 Ser Ser Ile Gln Val Gln Ser Asn Pro Met Glu Asn His Ser Thr Gly
 1 5 10 15

Ile Leu Ile Lys Val Met Glu Ile Pro Arg Ala Lys Met
 20 25

<210> 865
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 865
 Leu Gly Val Arg Lys Val Phe Met Ala Asn His Thr Leu Val Lys Pro
 1 5 10 15

Pro Phe Trp Trp Ile Pro Thr Asn Arg Ile Ser Phe Ile Ser Pro Ile
 20 25 30

Pro

<210> 866
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 866
 Thr Met Ala Ser Met Gly Leu Gln Val
 1 5

<210> 867
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 867
 Lys Ser Trp Met Met Leu Trp Ala Val Gln Asp Thr Gly Thr Ile Thr
 1 5 10 15

Ile Arg Pro Ala Asn Arg Asn Thr Thr Pro Ala Thr Ile Met Val Leu
 20 25 30

Ala Leu Ala Leu Ser Ser Ser Arg Gln Leu Val His Leu Pro Pro Thr

1000430-120701

35 40 45
 Thr Asp Ser Ser Thr Pro Arg Ala Ala Thr Met Met Leu Met Met Thr
 50 55 60
 Arg Ala Arg Ala Ala Cys Arg Ser Cys Gly Ser Ala Ser Ser Glu Ser
 65 70 75 80
 Tyr Thr Leu His Cys Ile Trp Pro Val Leu Cys Thr Thr Gln Phe Ile
 85 90 95
 His Arg Pro Ser Gln Met Val Cys Glu Val Thr Met Leu Leu Pro Met
 100 105 110
 Lys Ala Val Thr Arg His Met Gly Ser Ala Gln His Ser Met Thr Ala
 115 120 125
 Ser Gln Pro Arg Thr Ala Ser Ala Met Pro Ile Thr Cys Ser Pro Met
 130 135 140
 Glu Ala Ile Val Gln Arg Pro Arg Glu Leu Arg Thr Trp Lys Ala Glu
 145 150 155 160
 Gly Ile Arg Leu Trp Gly Pro
 165

<210> 868
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 868
 Leu Gln Val Met Gly Ile Ala Leu Ala Val Leu Gly Trp Leu Ala Val
 1 5 10 15

Met Leu Cys Cys Ala Leu Pro Met Trp Arg Val Thr
 20 25

<210> 869
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 869
 Ser Asn Ile Val Thr Ser Gln Thr Ile Trp Glu Gly Leu Trp Met Asn
 1 5 10 15

Cys Val Val Gln Ser Thr
 20

<210> 870
 <211> 18
 <212> PRT
 <213> Homo sapiens

10004560-120701

<400> 870

Gln Met Gln Cys Lys Val Tyr Asp Ser Leu Leu Ala Leu Pro Gln Asp
 1 5 10 15

Leu Gln

<210> 871

<211> 18

<212> PRT

<213> Homo sapiens

<400> 871

Lys Cys Thr Asn Cys Leu Glu Asp Glu Ser Ala Lys Ala Lys Thr Met
 1 5 10 15

Ile Val

<210> 872

<211> 32

<212> PRT

<213> Homo sapiens

<400> 872

Gly Val Val Phe Leu Leu Ala Gly Leu Met Val Ile Val Pro Val Ser
 1 5 10 15

Trp Thr Ala His Asn Ile Ile Gln Asp Phe Tyr Asn Pro Leu Val Ala
 20 25 30

<210> 873

<211> 12

<212> PRT

<213> Homo sapiens

<400> 873

Cys Cys Asn Cys Pro Pro Arg Thr Asp Lys Pro Tyr
 1 5 10

<210> 874

<211> 14

<212> PRT

<213> Homo sapiens

<400> 874

Pro Phe Thr Ala Ile Ala Gly Ser Glu Ile Phe Ser Leu Glu
 1 5 10

<210> 875

10004350-120701

<211> 11
 <212> PRT
 <213> Homo sapiens

<400> 875
 Ser Lys Thr Glu Ala Leu Thr Gln Ala Phe Arg
 1 5 10

<210> 876
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 876
 Val Val His Thr Val Ser Leu His Glu Ile Asp Val Ile Asn Ser Arg
 1 5 10 15

Thr Gln Gly Phe Leu Ala Leu Phe
 20

<210> 877
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 877
 Pro Gly Val Leu Phe Ile Asp Glu Val His Met Leu Asp Ile Glu
 1 5 10 15

<210> 878
 <211> 280
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (197)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 878
 Ala Gly Ile Arg Gln Arg Phe Ser Ala Arg Leu Trp Gln Leu Val Ser
 1 5 10 15

Ile Met Ala Thr Val Thr Ala Thr Thr Lys Val Pro Glu Ile Arg Asp
 20 25 30

Val Thr Arg Ile Glu Arg Ile Gly Ala His Ser His Ile Arg Gly Leu
 35 40 45

Gly Leu Asp Asp Ala Leu Glu Pro Arg Gln Ala Ser Gln Gly Met Val
 50 55 60

Gly Gln Leu Ala Ala Arg Arg Ala Ala Gly Val Val Leu Glu Met Ile
 65 70 75 80

10004660-120701

Arg Glu Gly Lys Ile Ala Gly Arg Ala Val Leu Ile Ala Gly Gln Pro
85 90 95

Gly Thr Gly Lys Thr Ala Ile Ala Met Gly Met Ala Gln Ala Leu Gly
100 105 110

Pro Asp Thr Pro Phe Thr Ala Ile Ala Gly Ser Glu Ile Phe Ser Leu
115 120 125

Glu Met Ser Lys Thr Glu Ala Leu Thr Gln Ala Phe Arg Arg Ser Ile
130 135 140

Gly Val Arg Ile Lys Glu Glu Thr Glu Ile Ile Glu Gly Glu Val Val
145 150 155 160

Glu Ile Gln Ile Asp Arg Pro Ala Thr Gly Thr Gly Ser Lys Val Gly
165 170 175

Lys Leu Thr Leu Lys Thr Thr Glu Met Glu Thr Ile Tyr Asp Leu Gly
180 185 190

Thr Lys Met Ile Xaa Ser Leu Thr Lys Asp Lys Val Gln Ala Gly Asp
195 200 205

Val Ile Thr Ile Asp Lys Ala Thr Gly Lys Ile Ser Lys Leu Gly Arg
210 215 220

Ser Phe Thr Arg Ala Arg Glu Leu Arg Arg Tyr Gly Leu Pro Asp Gln
225 230 235 240

Val Arg Ala Val Pro Arg Trp Gly Ala Pro Glu Thr Gln Gly Gly Gly
245 250 255

Ala His Arg Val Pro Ala Arg Asp Arg Arg His Gln Leu Ser His Pro
260 265 270

Gly Leu Pro Gly Ala Leu Leu Arg
275 280

<210> 879

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 879

Ser Pro Ser Thr Arg Arg Arg Ala Arg Ser Pro Ser Trp Ala Ala Pro
1 5 10 15

Ser His Ala Pro Ala Asn Tyr Asp Ala Met Gly Ser Gln Thr Lys Phe
20 25 30

Val Gln Cys Pro Asp Gly Glu Leu Gln Lys Arg Lys Glu Val Val His

10004660-120701

```
<210> 880
<211> 89
<212> PRT
<213> Homo sapiens
```

```
<210> 881
<211> 30
<212> PRT
```

<213> Homo sapiens

<400> 881

Tyr Asp Ala Met Gly Ser Gln Thr Lys Phe Val Gln Cys Pro Asp Gly
1 5 10 15

Glu Leu Gln Lys Arg Lys Glu Val Val His Thr Val Ser Leu
20 25 30

<210> 882

<211> 31

<212> PRT

<213> Homo sapiens

<400> 882

Lys Ala Glu Ile Ile Pro Gly Val Leu Phe Ile Asp Glu Val His Met
1 5 10 15

Leu Asp Ile Glu Ser Phe Ser Phe Leu Asn Arg Ala Leu Glu Ser
20 25 30

<210> 883

<211> 28

<212> PRT

<213> Homo sapiens

<400> 883

Glu Ala Thr Asn Arg Gly Ile Thr Arg Ile Arg Gly Thr Ser Tyr Gln
1 5 10 15

Ser Pro His Gly Ile Pro Ile Asp Leu Leu Asp Arg
20 25

<210> 884

<211> 22

<212> PRT

<213> Homo sapiens

<400> 884

Met Arg Ser Ala Arg Pro Ser Leu Gly Cys Leu Pro Ser Trp Ala Phe
1 5 10 15

Ser Gln Ala Leu Asn Ile
20

<210> 885

<211> 22

<212> PRT

<213> Homo sapiens

<400> 885

Leu Leu Gly Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys
1 5 10 15

10004860.10001

Glu Lys Gly Asn Phe Asn
20

<210> 886
<211> 26
<212> PRT
<213> Homo sapiens

<400> 886
Val Ala His Gly Leu Ala Trp Ser Tyr Tyr Ile Gly Tyr Leu Arg Leu
1 5 10 15

Ile Leu Pro Glu Leu Gln Ala Arg Ile Arg
20 25

<210> 887
<211> 18
<212> PRT
<213> Homo sapiens

<400> 887
Thr Tyr Asn Gln His Tyr Asn Asn Leu Leu Arg Gly Ala Val Ser Gln
1 5 10 15

Arg Cys

<210> 888
<211> 43
<212> PRT
<213> Homo sapiens

<400> 888
Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala
1 5 10 15

Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp
20 25 30

Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn
35 40

<210> 889
<211> 45
<212> PRT
<213> Homo sapiens

<400> 889
Ser Ile Tyr Glu Leu Leu Glu Asn Gly Gln Arg Ala Gly Thr Cys Val
1 5 10 15

Leu Glu Tyr Ala Thr Pro Leu Gln Thr Leu Phe Ala Met Ser Gln Tyr
20 25 30

1000466-120701

Ser Gln Ala Gly Phe Ser Gly Glu Asp Arg Leu Glu Gln
 35 40 45

<210> 890

<211> 92

<212> PRT

<213> Homo sapiens

<400> 890

Ala Lys Leu Phe Cys Arg Thr Leu Glu Asp Ile Leu Ala Asp Ala Pro
 1 5 10 15

Glu Ser Gln Asn Asn Cys Arg Leu Ile Ala Tyr Gln Glu Pro Ala Asp
 20 25 30

Asp Ser Ser Phe Ser Leu Ser Gln Glu Val Leu Arg His Leu Arg Gln
 35 40 45

Glu Glu Lys Glu Glu Val Thr Val Gly Ser Leu Lys Thr Ser Ala Val
 50 55 60

Pro Ser Thr Ser Thr Met Ser Gln Glu Pro Glu Leu Leu Ile Ser Gly
 65 70 75 80

Met Glu Lys Pro Leu Pro Leu Arg Thr Asp Phe Ser
 85 90

<210> 891

<211> 43

<212> PRT

<213> Homo sapiens

<400> 891

Leu Leu Gly Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys
 1 5 10 15

Glu Lys Gly Asn Phe Asn Val Ala His Gly Leu Ala Trp Ser Tyr Tyr
 20 25 30

Ile Gly Tyr Leu Arg Leu Ile Leu Pro Glu Leu
 35 40

<210> 892

<211> 76

<212> PRT

<213> Homo sapiens

<400> 892

Leu Arg Leu His Ser Glu Lys Leu Pro Leu Ala Ala Arg Ser Ala Gly
 1 5 10 15

Pro Ser Leu Leu Val Ile Ile Gln Ser Ser Gln Cys Pro Gly Gly Arg
 20 25 30

Arg Tyr Arg Gly Ser Tyr Trp Arg Thr Val Arg Ala Cys Leu Gly Cys

10004560-120701

35

40

45

Pro Leu Arg Arg Gly Ala Leu Leu Leu Ser Ile Tyr Phe Tyr Tyr
 50 55 60

Ser Leu Pro Asn Ala Val Gly Pro Pro Phe Thr Trp
 65 70 75

<210> 893

<211> 133

<212> PRT

<213> Homo sapiens

<400> 893

Val Trp Leu Thr Pro Thr Phe Ala Ser Trp Ile Asn Cys Pro Ser Arg
 1 5 10 15

Pro Val Thr Val Leu Ala Ser Arg Ile Gly Phe Thr Ala Thr Ala Ser
 20 25 30

Met Ser Phe Trp Arg Thr Gly Ser Gly Arg Ala Pro Val Ser Trp Ser
 35 40 45

Thr Pro Pro Pro Cys Arg Leu Cys Leu Pro Cys His Asn Thr Val Lys
 50 55 60

Leu Ala Leu Ala Gly Arg Ile Gly Leu Ser Arg Pro Asn Ser Ser Ala
 65 70 75 80

Gly His Leu Arg Thr Ser Trp Gln Met Pro Leu Ser Leu Arg Thr Thr
 85 90 95

Ala Ala Ser Leu Pro Thr Arg Asn Leu Gln Met Thr Ala Ala Ser Arg
 100 105 110

Cys Pro Arg Arg Phe Ser Gly Thr Cys Gly Arg Arg Lys Arg Lys Arg
 115 120 125

Leu Leu Trp Ala Ala
 130

<210> 894

<211> 87

<212> PRT

<213> Homo sapiens

<400> 894

Gly Val Cys Gln Val Ser Phe Met Gly Pro Ser Arg Pro Thr Pro His
 1 5 10 15

Pro Ser Pro Leu Pro Leu Pro Gly Asp Ala Glu Leu Ser Gln Trp Tyr
 20 25 30

Gln Gln Ala Pro Ser Pro Ser Gly Ser Trp Ser Cys Ser Ile Ile Gly
 35 40 45

10004860 120701

Glu Pro Gln Gln Lys Asn Gly Glu Glu Glu Glu Ala Glu Phe Gly Val
 50 55 60

Leu Asn Pro Pro Ala Pro Thr Leu Gln His Gln Gly Cys Tyr Gly Leu
 65 70 75 80

Ser Cys Arg Ala Thr Leu Ala
 85

<210> 895

<211> 22

<212> PRT

<213> Homo sapiens

<400> 895

Thr Met Lys Leu Leu Lys Leu Arg Arg Asn Ile Val Lys Leu Ser Leu
 1 5 10 15

Tyr Arg His Phe Thr Asn
 20

<210> 896

<211> 22

<212> PRT

<213> Homo sapiens

<400> 896

Thr Leu Ile Leu Ala Val Ala Ala Ser Ile Val Phe Ile Ile Trp Thr
 1 5 10 15

Thr Met Lys Phe Arg Ile
 20

<210> 897

<211> 28

<212> PRT

<213> Homo sapiens

<400> 897

Val Thr Cys Gln Ser Asp Trp Arg Glu Leu Trp Val Asp Asp Ala Ile
 1 5 10 15

Trp Arg Leu Leu Phe Ser Met Ile Leu Phe Val Ile
 20 25

<210> 898

<211> 27

<212> PRT

<213> Homo sapiens

<400> 898

Met Val Leu Trp Arg Pro Ser Ala Asn Asn Gln Arg Phe Ala Phe Ser
 1 5 10 15

10004860.120701

Pro Leu Ser Glu Glu Glu Glu Glu Asp Glu Gln
20 25

<210> 899
<211> 27
<212> PRT
<213> Homo sapiens

<400> 899
Met Val Leu Trp Arg Pro Ser Ala Asn Asn Gln Arg Phe Ala Phe Ser
1 5 10 15

Pro Leu Ser Glu Glu Glu Glu Glu Asp Glu Gln
20 25

<210> 900
<211> 35
<212> PRT
<213> Homo sapiens

<400> 900
Lys Glu Pro Met Leu Lys Glu Ser Phe Glu Gly Met Lys Met Arg Ser
1 5 10 15

Thr Lys Gln Glu Pro Asn Gly Asn Ser Lys Val Asn Lys Ala Gln Glu
20 25 30

Asp Asp Leu
35

<210> 901
<211> 37
<212> PRT
<213> Homo sapiens

<400> 901
Lys Trp Val Glu Glu Asn Val Pro Ser Ser Val Thr Asp Val Ala Leu
1 5 10 15

Pro Ala Leu Leu Asp Ser Asp Glu Glu Arg Met Ile Thr His Phe Glu
20 25 30

Arg Ser Lys Met Glu
35

<210> 902
<211> 20
<212> PRT
<213> Homo sapiens

<400> 902
Asp Pro Arg Val Arg Leu Asn Ser Leu Thr Cys Lys His Ile Phe Ile
1 5 10 15

10004360-120701

Ser Leu Thr Gln
20

<210> 903
<211> 11
<212> PRT
<213> Homo sapiens

<400> 903
Asn Ala Phe Gly Arg His Ser Thr Ala Val Lys
1 5 10

<210> 904
<211> 283
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 904
Glu Ser Cys Leu Leu Cys Gly Ile Ser Glu Tyr Pro Ile Gln Arg Xaa
1 5 10 15

Ile Cys Pro Gly Cys Phe Asp Pro Cys Arg Xaa Ala Phe Ser Ser Glu
20 25 30

Thr Leu Thr Gly Ser Asn Pro Gly His His Ser Gln Ser Gly Ile Trp
35 40 45

His Arg Gln Ala Thr Pro Gly Val Thr Leu His Lys Val Val Val Ala
50 55 60

Xaa Ala Leu Tyr Leu Leu Phe Ser Gly Met Glu Gly Val Leu Arg Val
65 70 75 80

Thr Gly Ala Gln Thr Asp Leu Ala Ser Leu Ala Phe Ile Pro Leu Ala
85 90 95

Phe Leu Asp Thr Ala Leu Cys Trp Trp Ile Phe Ile Ser Leu Thr Gln
100 105 110

Thr Met Lys Leu Leu Lys Leu Arg Arg Asn Ile Val Lys Leu Ser Leu
115 120 125

10004860.120701

Tyr Arg His Phe Thr Asn Thr Leu Ile Leu Ala Val Ala Ala Ser Ile
130 135 140

Val Phe Ile Ile Trp Thr Thr Met Lys Phe Arg Ile Val Thr Cys Gln
145 150 155 160

Ser Asp Trp Arg Glu Leu Trp Val Asp Asp Ala Ile Trp Arg Leu Leu
165 170 175

Phe Ser Met Ile Leu Phe Val Ile Met Val Leu Trp Arg Pro Ser Ala
180 185 190

Asn Asn Gln Arg Phe Ala Phe Ser Pro Leu Ser Glu Glu Glu Glu Glu
195 200 205

Asp Glu Gln Lys Glu Pro Met Leu Lys Glu Ser Phe Glu Gly Met Lys
210 215 220

Met Arg Ser Thr Lys Gln Glu Pro Asn Gly Asn Ser Lys Val Asn Lys
225 230 235 240

Ala Gln Glu Asp Asp Leu Lys Trp Val Glu Glu Asn Val Pro Ser Ser
245 250 255

Val Thr Asp Val Ala Leu Pro Ala Leu Leu Asp Ser Asp Glu Glu Arg
260 265 270

Met Ile Thr His Phe Glu Arg Ser Lys Met Glu
275 280

<210> 905

<211> 13

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 905

Tyr Glu Pro Met Asp Phe Xaa Met Ala Leu Ile Tyr Asp
1 5 10

<210> 906

<211> 16

<212> PRT

<213> Homo sapiens

<400> 906

Ile Arg His Glu Leu Thr Val Leu Arg Asp Thr Arg Pro Ala Cys Ala
1 5 10 15

10004360-120701

<210> 907
 <211> 10
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 907
 Met Asp Phe Xaa Met Ala Leu Ile Tyr Asp
 1 5 10

<210> 908
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 908
 Met Gln Glu Met Met Arg Asn Gln Asp Arg Ala Leu Ser Asn Leu Glu
 1 5 10 15

Ser Ile Pro Gly Gly Tyr Asn Ala
 20

<210> 909
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 909
 Leu Arg Arg Met Tyr Thr Asp Ile Gln Glu Pro Met Leu Ser Ala Ala
 1 5 10 15

Gln Glu Gln Phe Gly Gly Asn Pro Phe
 20 25

<210> 910
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 910
 Ala Ser Leu Val Ser Asn Thr Ser Ser Gly Glu Gly Ser Gln Pro Ser
 1 5 10 15

Arg Thr Glu Asn Arg Asp Pro Leu Pro Asn Pro Trp Ala Pro Gln Thr
 20 25 30

10004360 120701

<210> 911
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 911
 Ser Gln Ser Ser Ser Ala Ser Ser Gly Thr Ala Ser Thr Val Gly Gly
 1 5 10 15
 Thr Thr Gly Ser Thr Ala Ser Gly Thr Ser Gly Gln Ser Thr Thr Ala
 20 25 30
 Pro Asn Leu Val Pro Gly Val Gly Ala Ser Met Phe Asn Thr Pro Gly
 35 40 45
 Met Gln Ser Leu Leu Gln Gln Ile Thr Glu Asn Pro Gln Leu Met Gln
 50 55 60
 Asn Met Leu Ser Ala Pro Tyr
 65 70

<210> 912
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 912
 Met Arg Ser Met Met Gln Ser Leu Ser Gln Asn Pro Asp Leu Ala Ala
 1 5 10 15
 Gln Met Met Leu Asn Asn Pro Leu Phe Ala Gly Asn Pro Gln Leu Gln
 20 25 30
 Glu Gln Met Arg Gln Gln Leu Pro Thr Phe Leu Gln Gln
 35 40 45

<210> 913
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 913
 Met Gln Asn Pro Asp Thr Leu Ser Ala Met Ser Asn Pro Arg Ala Met
 1 5 10 15
 Gln Ala Leu Leu Gln Ile Gln Gln Gly Leu Gln Thr Leu Ala Thr Glu
 20 25 30
 Ala Pro Gly Leu Ile Pro Gly Phe Thr Pro Gly Leu Gly Ala Leu Gly
 35 40 45
 Ser Thr Gly Gly Ser Ser Gly Thr Asn Gly Ser Asn Ala Thr Pro Ser
 50 55 60
 Glu Asn Thr Ser Pro Thr Ala Gly Thr

10004860120701

65

70

<210> 914

<211> 72

<212> PRT

<213> Homo sapiens

<400> 914

Thr Glu Pro Gly His Gln Gln Phe Ile Gln Gln Met Leu Gln Ala Leu
 1 5 10 15

Ala Gly Val Asn Pro Gln Leu Gln Asn Pro Glu Val Arg Phe Gln Gln
 20 25 30

Gln Leu Glu Gln Leu Ser Ala Met Gly Phe Leu Asn Arg Glu Ala Asn
 35 40 45

Leu Gln Ala Leu Ile Ala Thr Gly Gly Asp Ile Asn Ala Ala Ile Glu
 50 55 60

Arg Leu Leu Gly Ser Gln Pro Ser
 65 70

<210> 915

<211> 45

<212> PRT

<213> Homo sapiens

<400> 915

Arg Asn Pro Ala Met Met Gln Glu Met Met Arg Asn Gln Asp Arg Ala
 1 5 10 15

Leu Ser Asn Leu Glu Ser Ile Pro Gly Gly Tyr Asn Ala Leu Arg Arg
 20 25 30

Met Tyr Thr Asp Ile Gln Glu Pro Met Leu Ser Ala Ala
 35 40 45

<210> 916

<211> 13

<212> PRT

<213> Homo sapiens

<400> 916

Gly Asn Pro Phe Ala Ser Leu Val Ser Asn Thr Ser Ser
 1 5 10

<210> 917

<211> 11

<212> PRT

<213> Homo sapiens

<400> 917

Glu Asn Arg Asp Pro Leu Pro Asn Pro Trp Ala

10004660-120701

65

70

<210> 914

<211> 72

<212> PRT

<213> Homo sapiens

<400> 914

Thr Glu Pro Gly His Gln Gln Phe Ile Gln Gln Met Leu Gln Ala Leu
 1 5 10 15

Ala Gly Val Asn Pro Gln Leu Gln Asn Pro Glu Val Arg Phe Gln Gln
 20 25 30

Gln Leu Glu Gln Leu Ser Ala Met Gly Phe Leu Asn Arg Glu Ala Asn
 35 40 45

Leu Gln Ala Leu Ile Ala Thr Gly Gly Asp Ile Asn Ala Ala Ile Glu
 50 55 60

Arg Leu Leu Gly Ser Gln Pro Ser
 65 70

<210> 915

<211> 45

<212> PRT

<213> Homo sapiens

<400> 915

Arg Asn Pro Ala Met Met Gln Glu Met Met Arg Asn Gln Asp Arg Ala
 1 5 10 15

Leu Ser Asn Leu Glu Ser Ile Pro Gly Gly Tyr Asn Ala Leu Arg Arg
 20 25 30

Met Tyr Thr Asp Ile Gln Glu Pro Met Leu Ser Ala Ala
 35 40 45

<210> 916

<211> 13

<212> PRT

<213> Homo sapiens

<400> 916

Gly Asn Pro Phe Ala Ser Leu Val Ser Asn Thr Ser Ser
 1 5 10

<210> 917

<211> 11

<212> PRT

<213> Homo sapiens

<400> 917

Glu Asn Arg Asp Pro Leu Pro Asn Pro Trp Ala

10004860 120701

1

5

10

<210> 918

<211> 17

<212> PRT

<213> Homo sapiens

<400> 918

Gly Lys Ile Leu Lys Asp Gln Asp Thr Leu Ser Gln His Gly Ile His
 1 5 10 15

Asp

<210> 919

<211> 14

<212> PRT

<213> Homo sapiens

<400> 919

Gly Leu Thr Val His Leu Val Ile Lys Thr Gln Asn Arg Pro
 1 5 10

<210> 920

<211> 18

<212> PRT

<213> Homo sapiens

<400> 920

Ser Glu Leu Gln Ser Gln Met Gln Arg Gln Leu Leu Ser Asn Pro Glu
 1 5 10 15

Met Met

<210> 921

<211> 14

<212> PRT

<213> Homo sapiens

<400> 921

Pro Glu Ile Ser His Met Leu Asn Asn Pro Asp Ile Met Arg
 1 5 10

<210> 922

<211> 18

<212> PRT

<213> Homo sapiens

<400> 922

Arg Gln Leu Ile Met Ala Asn Pro Gln Met Gln Gln Leu Ile Gln Arg
 1 5 10 15

T0004860-100701

Asn Pro

<210> 923
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 923
 Asn Leu Cys His Val Asp Cys Gln Asp Leu Leu Asn Pro Asn Leu Leu
 1 5 10 15

Ala Gly Ile His Cys Ala Lys Arg Ile Val Ser
 20 25

<210> 924
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 924
 Leu Asp Gly Phe Glu Gly Tyr Ser Leu Ser Asp Trp Leu Cys Leu Ala
 1 5 10 15

Phe Val Glu Ser Lys Phe Asn
 20

<210> 925
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 925
 Asn Glu Asn Ala Asp Gly Ser Phe Asp Tyr Gly Leu Phe Gln Ile Asn
 1 5 10 15

Ser His Tyr Trp Cys Asn
 20

<210> 926
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 926
 Asn Leu Cys His Val Asp Cys Gln Asp Leu Leu Asn Pro Asn Leu Leu
 1 5 10 15

Ala Gly Ile His Cys Ala Lys Arg Ile Val Ser
 20 25

<210> 927
 <211> 13

10004860.120701

<212> PRT
 <213> Homo sapiens

<400> 927
 Glu Pro Ser Ala Leu Ser Cys Thr Ser Ser Pro Pro Arg
 1 5 10

<210> 928
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 928
 Ile Arg Glu Val Asn Glu Val Ile Gln Asn Pro Ala Thr
 1 5 10

<210> 929
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 929
 Ile Thr Arg Ile Leu Leu Ser His Phe Asn Trp Asp Lys Glu Lys Leu
 1 5 10 15

Met Glu Arg Tyr Phe Asp Gly Asn Leu Glu Lys Leu Phe Ala
 20 25 30

<210> 930
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 930
 Asn Thr Arg Ser Ser Ala Gln Asp Met Pro Cys Gln Ile Cys Tyr Leu
 1 5 10 15

Asn Tyr Pro Asn Ser Tyr Phe
 20

<210> 931
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 931
 Cys Asp Ile Leu Val Asp Asp Asn Thr Val Met Arg Leu Ile Thr Asp
 1 5 10 15

Ser Lys Val Lys Leu Lys Tyr Gln His Leu Ile Thr Asn Ser Phe Val
 20 25 30

Glu Cys Asn Arg Leu Leu Lys Trp Cys Pro Ala Pro Asp Cys His His
 35 40 45

10004860-100701

Val Val Lys Val Gln Tyr Pro Asp Ala Lys Pro Val
 50 55 60

<210> 932
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 932
 Cys Asp Ile Leu Val Asp Asp Asn Thr Val Met Arg Leu Ile Thr Asp
 1 5 10 15

Ser Lys Val Lys Leu Lys Tyr Gln His Leu Ile Thr Asn Ser Phe Val
 20 25 30

Glu Cys Asn Arg Leu Leu Lys Trp Cys Pro Ala Pro Asp Cys His His
 35 40 45

Val Val Lys Val
 50

<210> 933
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 933
 Gly Cys Asn His Met Val Cys Arg Asn Gln Asn Cys Lys Ala Glu Phe
 1 5 10 15

Cys Trp Val Cys Leu Gly Pro Trp Glu Pro His Gly Ser Ala Trp Tyr
 20 25 30

Asn Cys Asn Arg Tyr Asn Glu Asp Asp Ala Lys Ala Ala Arg Asp Ala
 35 40 45

Gln Glu Arg Ser Arg Ala Ala Leu Gln Arg Tyr Leu
 50 55 60

<210> 934
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 934
 Phe Tyr Cys Asn Arg Tyr Met Asn His Met Gln Ser Leu Arg Phe Glu
 1 5 10 15

His Lys Leu Tyr Ala Gln Val Lys Gln Lys Met Glu Glu Met Gln Gln
 20 25 30

His Asn Met Ser Trp Ile Glu Val Gln Phe Leu Lys Lys Ala Val Asp
 35 40 45

10004350-10701

Val Leu Cys Gln Cys Arg Ala Thr Leu Met Tyr Thr
 50 55 60

<210> 935
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 935
 Tyr Val Phe Ala Phe Tyr Leu Lys Lys Asn Asn Gln Ser Ile Ile Phe
 1 5 10 15

Glu Asn Asn Gln Ala Asp Leu Glu Asn Ala Thr Glu Val Leu Ser Gly
 20 25 30

Tyr Leu Glu Arg Asp Ile Ser Gln Asp Ser Leu Gln Asp Ile Lys Gln
 35 40 45

Lys Val Gln Asp Lys Tyr Arg Tyr Cys Glu Ser Arg
 50 55 60

<210> 936
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 936
 Thr Gly Leu Glu Cys Gly His Lys Phe Cys Met Gln Cys Trp Ser Glu
 1 5 10 15

Tyr Leu Thr Thr Lys Ile Met Glu Glu Gly Met Gly Gln Thr Ile Ser
 20 25 30

Cys Pro Ala His Gly
 35

<210> 937
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 937
 Met Trp Gly Tyr Leu Phe Val Asp Ala Ala Trp Asn Phe Leu Gly Cys
 1 5 10 15

Leu Ile Cys Gly Trp
 20

<210> 938
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>

1004360.12001

<221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 938

Met His Phe Ile Ser Ser Gly Asn Val Ser Ala Ile Arg Ser Ser Ile
 1 5 10 15

Leu Leu Leu Arg Xaa Ser Leu Ser Tyr Leu Gly Asn Cys Leu Arg Val
 20 25 30

Ser Ala Ile Phe Val Tyr Phe Leu Leu Phe Leu Leu Ser
 35 40 45

<210> 939

<211> 80

<212> PRT

<213> Homo sapiens

<400> 939

Met Asp Gln Ala Leu Arg Gly Ser Pro Ser Glu Gly Phe Ser Thr Asp
 1 5 10 15

Pro Ser Pro Pro Gln Val Gly Arg Gln Ile Pro Ser Phe Pro Pro Trp
 20 25 30

Arg Arg Leu Val Leu Pro Lys Ala Ser Gly Cys Phe Leu Glu Arg Glu
 35 40 45

Trp Trp Leu Cys Val Phe Lys Leu Arg Thr Arg Pro Gly Ala Glu Ala
 50 55 60

His Ala Tyr Asn Ser Ser Ile Leu Gly Gly Arg Gly Lys Gly Ile Thr
 65 70 75 80

<210> 940

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 940

Met Leu Pro Ala Leu Ala Ser Cys Cys His Phe Ser Pro Pro Glu Gln
 1 5 10 15

Ala Ala Arg Leu Lys Lys Leu Gln Glu Gln Glu Lys Gln Gln Lys Val
 20 25 30

Glu Phe Arg Lys Arg Met Glu Lys Glu Val Ser Asp Phe Ile Gln Asp

10004860.120701

35

40

45

Ser Gly Gln Ile Lys Lys Lys Phe Gln Pro Met Asn Lys Ile Glu Arg
50 55 60

Ser Ile Leu His Asp Val Val Glu Val Ala Gly Leu Thr Ser Phe Ser
65 70 75 80

Phe Gly Glu Asp Asp Asp Cys Arg Tyr Val Met Ile Phe Lys Lys Glu
85 90 95

Phe Ala Pro Ser Asp Glu Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu
100 105 110

Trp Asp Pro Gln Lys Ala Glu Glu Lys Arg Asn Xaa Lys Glu Leu Ala
115 120 125

Gln Arg Gln
130

<210> 941

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 941

Glu Glu Glu Ala Ala Gln Gln Gly Pro Val Val Val Ser Pro Ala Ser
1 5 10 15

Asp Tyr Lys Asp Lys Tyr Ser His Leu Ile Gly Lys Gly Ala Ala Lys
20 25 30

Asp Ala Ala His Met Leu Gln Ala Asn Lys Thr Tyr Gly Cys Xaa Pro
35 40 45

Val Ala Asn Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala Met Asn Glu
50 55 60

Ile Arg Ala Lys Lys Arg Leu Arg Gln Ser Gly Glu
65 70 75

<210> 942

<211> 40

<212> PRT

<213> Homo sapiens

<400> 942

Pro Pro Arg Arg Pro Ala Gln Leu Pro Leu Thr Pro Gly Ala Gly Gln
1 5 10 15

Gly Ala Gly Arg Asp Lys Ala Ala Ala Ile Arg Ala His Pro Gly Ala

10004860-120701

30

Trp Asp Pro Gln Lys Ala Glu Glu Lys Arg Asn Xaa Lys Glu Leu Ala
115 120 125

Gln Arg Gln Glu Glu Glu Ala Ala Gln Gln Gly Pro Val Val Val Ser
130 135 140

Pro Ala Ser Asp Tyr Lys Asp Lys Tyr Ser His Leu Ile Gly Lys Gly
145 150 155 160

Ala Ala Lys Asp Ala Ala His Met Leu Gln Ala Asn Lys Thr Tyr Gly
165 170 175

Cys Xaa Pro Val Ala Asn Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala
180 185 190

Met Asn Glu Ile Arg Ala Lys Lys Arg Leu Arg Gln Ser Gly Glu
195 200 205

<210> 945

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 945

Leu Leu Cys Pro Val Leu Asn Ser Gly Xaa Ser Trp Asn Phe Pro His
1 5 10 15

Pro Ser Gln Pro Glu Tyr Ser Phe His Gly Phe His Ser Thr Arg Leu
20 25 30

Trp Ile

<210> 946

<211> 28

<212> PRT

<213> Homo sapiens

<400> 946

Pro Ser Thr Pro Trp Phe Leu Phe Leu Leu Gly Leu Thr Cys Pro Phe
1 5 10 15

Ser Thr Ser His Pro Arg Trp Asp Ser Ile Pro Pro
20 25

<210> 947

<211> 227

<212> PRT

<213> Homo sapiens

<400> 947

Glu Leu Ser Ile Ser Ile Ser Asn Val Ala Leu Ala Asp Glu Gly Glu

10004360.120701

1 5 10 15

Tyr Thr Cys Ser Ile Phe Thr Met Pro Val Arg Thr Ala Lys Ser Leu
20 25 30

Val Thr Val Leu Gly Ile Pro Gln Lys Pro Ile Ile Thr Gly Tyr Lys
35 40 45

Ser Ser Leu Arg Glu Lys Asp Thr Ala Thr Leu Asn Cys Gln Ser Ser
50 55 60

Gly Ser Lys Pro Ala Ala Arg Leu Thr Trp Arg Lys Gly Asp Gln Glu
65 70 75 80

Leu His Gly Glu Pro Thr Arg Ile Gln Glu Asp Pro Asn Gly Lys Thr
85 90 95

Phe Thr Val Ser Ser Ser Val Thr Phe Gln Val Thr Arg Glu Asp Asp
100 105 110

Gly Ala Ser Ile Val Cys Ser Val Asn His Glu Ser Leu Lys Gly Ala
115 120 125

Asp Arg Ser Thr Ser Gln Arg Ile Glu Val Leu Tyr Thr Pro Thr Ala
130 135 140

Met Ile Arg Pro Asp Pro Pro His Pro Arg Glu Gly Gln Lys Leu Leu
145 150 155 160

Leu His Cys Glu Gly Arg Gly Asn Pro Val Pro Gln Gln Tyr Leu Trp
165 170 175

Glu Lys Glu Gly Ser Val Pro Pro Leu Lys Met Thr Gln Glu Ser Ala
180 185 190

Leu Ile Phe Pro Phe Leu Asn Lys Ser Asp Ser Gly Thr Tyr Gly Cys
195 200 205

Thr Ala Thr Ser Asn Met Gly Ser Tyr Lys Ala Tyr Tyr Thr Leu Asn
210 215 220

Val Asn Asp
225

<210> 948

<211> 64

<212> PRT

<213> Homo sapiens

<400> 948

Glu Leu Ser Ile Ser Ile Ser Asn Val Ala Leu Ala Asp Glu Gly Glu
1 5 10 15

Tyr Thr Cys Ser Ile Phe Thr Met Pro Val Arg Thr Ala Lys Ser Leu
20 25 30

Val Thr Val Leu Gly Ile Pro Gln Lys Pro Ile Ile Thr Gly Tyr Lys

10004560-120701

35

40

45

Ser Ser Leu Arg Glu Lys Asp Thr Ala Thr Leu Asn Cys Gln Ser Ser
 50 55 60

<210> 949

<211> 65

<212> PRT

<213> Homo sapiens

<400> 949

Cys Gln Ser Ser Gly Ser Lys Pro Ala Ala Arg Leu Thr Trp Arg Lys
 1 5 10 15

Gly Asp Gln Glu Leu His Gly Glu Pro Thr Arg Ile Gln Glu Asp Pro
 20 25 30

Asn Gly Lys Thr Phe Thr Val Ser Ser Ser Val Thr Phe Gln Val Thr
 35 40 45

Arg Glu Asp Asp Gly Ala Ser Ile Val Cys Ser Val Asn His Glu Ser
 50 55 60

Leu
 65

<210> 950

<211> 58

<212> PRT

<213> Homo sapiens

<400> 950

His Glu Ser Leu Lys Gly Ala Asp Arg Ser Thr Ser Gln Arg Ile Glu
 1 5 10 15

Val Leu Tyr Thr Pro Thr Ala Met Ile Arg Pro Asp Pro Pro His Pro
 20 25 30

Arg Glu Gly Gln Lys Leu Leu Leu His Cys Glu Gly Arg Gly Asn Pro
 35 40 45

Val Pro Gln Gln Tyr Leu Trp Glu Lys Glu
 50 55

<210> 951

<211> 52

<212> PRT

<213> Homo sapiens

<400> 951

Trp Glu Lys Glu Gly Ser Val Pro Pro Leu Lys Met Thr Gln Glu Ser
 1 5 10 15

10004850.120701

Ala Leu Ile Phe Pro Phe Leu Asn Lys Ser Asp Ser Gly Thr Tyr Gly
20 25 30

Cys Thr Ala Thr Ser Asn Met Gly Ser Tyr Lys Ala Tyr Tyr Thr Leu
35 40 45

Asn Val Asn Asp
50

<210> 952
<211> 36
<212> PRT
<213> Homo sapiens

<400> 952
Pro Ser Pro Val Pro Ser Ser Ser Ser Thr Tyr His Ala Ile Ile Gly
1 5 10 15

Gly Ile Val Ala Phe Ile Val Phe Leu Leu Leu Ile Met Leu Ile Phe
20 25 30

Leu Gly His Tyr
35

<210> 953
<211> 44
<212> PRT
<213> Homo sapiens

<400> 953
Leu Ile Arg His Lys Gly Thr Tyr Leu Thr His Glu Ala Lys Gly Ser
1 5 10 15

Asp Asp Ala Pro Asp Ala Asp Thr Ala Ile Ile Asn Ala Glu Gly Gly
20 25 30

Gln Ser Gly Gly Asp Asp Lys Lys Glu Tyr Phe Ile
35 40

<210> 954
<211> 123
<212> PRT
<213> Homo sapiens

<400> 954
Val Pro Glu Leu Pro Asp Arg Val His Gln Leu His Gln Ala Val Gln
1 5 10 15

Gly Cys Ala Leu Gly Arg Pro Gly Phe Pro Gly Gly Pro Thr His Ser
20 25 30

Gly His His Lys Ser His Pro Gly Pro Ala Gly Gly Asp Tyr Asn Arg
35 40 45

10004660-120701

Cys Asp Arg Pro Gly Gln Val His Leu His Asn Pro Arg Gly Thr Gly
50 55 60

Arg Arg Gly Gln Leu His Pro Thr Ala Gly Pro Gly Val His Arg Arg
65 70 75 80

Ala Cys Pro Ser Gln Gln Leu Pro His Arg Leu Gly Pro Gly Val Pro
85 90 95

Cys Pro Ser Pro Ser Leu Thr Pro Val Leu Pro Ser Trp Thr Gln Ser
100 105 110

Trp Cys Gly Leu Pro Gly Tyr Thr Ser Ser Ser
115 120

<210> 955

<211> 22

<212> PRT

<213> Homo sapiens

<400> 955

Val His Gln Leu His Gln Ala Val Gln Gly Cys Ala Leu Gly Arg Pro
1 5 10 15

Gly Phe Pro Gly Gly Pro
20

<210> 956

<211> 42

<212> PRT

<213> Homo sapiens

<400> 956

Pro Thr His Ser Gly His His Lys Ser His Pro Gly Pro Ala Gly Gly
1 5 10 15

Asp Tyr Asn Arg Cys Asp Arg Pro Gly Gln Val His Leu His Asn Pro
20 25 30

Arg Gly Thr Gly Arg Arg Gly Gln Leu His
35 40

<210> 957

<211> 55

<212> PRT

<213> Homo sapiens

<400> 957

Leu His Pro Thr Ala Gly Pro Gly Val His Arg Arg Ala Cys Pro Ser
1 5 10 15

Gln Gln Leu Pro His Arg Leu Gly Pro Gly Val Pro Cys Pro Ser Pro
20 25 30

Ser Leu Thr Pro Val Leu Pro Ser Trp Thr Gln Ser Trp Cys Gly Leu

10004860-120701

45

```

<210> 958
<211> 276
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 958
Ser Leu Arg Arg Pro Arg Ser Ala Ala Xaa Gln Thr Leu Thr Thr Phe
  1           5           10           15

Leu Ser Ser Val Ser Ser Ala Ser Ser Ser Ala Leu Pro Gly Ser Arg
  20           25           30

Glu Pro Cys Asp Pro Arg Ala Pro Pro Pro Pro Arg Ser Gly Ser Ala
  35           40           45

Ala Ser Cys Cys Ser Cys Cys Cys Ser Cys Pro Arg Arg Arg Ala Pro
  50           55           60

Leu Arg Ser Pro Arg Gly Ser Lys Arg Arg Ile Arg Gln Arg Glu Val
  65           70           75           80

Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro
  85           90           95

Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly
  100           105           110

Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg
  115           120           125

Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp
  130           135           140

Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr
  145           150           155           160

Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly
  165           170           175

Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe
  180           185           190

Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile
  195           200           205

Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile
  210           215           220

```


His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly
225 230 235 240

Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys
245 250 255

Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile Glu
260 265 270

Glu Leu Pro Lys
275

<210> 959

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 959

Ser Leu Arg Arg Pro Arg Ser Ala Ala Xaa Gln Thr Leu Thr Thr Phe
1 5 10 15

Leu Ser Ser Val Ser Ser Ala Ser Ser Ser Ala Leu Pro Gly Ser Arg
20 25 30

Glu Pro Cys Asp Pro Arg Ala Pro Pro Pro Pro Arg Ser Gly Ser Ala
35 40 45

Ala Ser Cys Cys Ser Cys Cys Cys Ser Cys Pro Arg Arg
50 55 60

<210> 960

<211> 52

<212> PRT

<213> Homo sapiens

<400> 960

Arg Ala Pro Leu Arg Ser Pro Arg Gly Ser Lys Arg Arg Ile Arg Gln
1 5 10 15

Arg Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala
20 25 30

Gly Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly
35 40 45

Thr Pro Gly Ile
50

<210> 961

10004860-120701

<211> 52
 <212> PRT
 <213> Homo sapiens

<400> 961
 Thr Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu
 1 5 10 15
 Cys Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln
 20 25 30
 Cys Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala
 35 40 45
 Glu Cys Thr Phe
 50

<210> 962
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 962
 Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly
 1 5 10 15
 Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe
 20 25 30
 Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile
 35 40 45
 Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile
 50 55 60
 His Arg
 65

<210> 963
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 963
 Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu
 1 5 10 15
 Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gly
 20 25 30
 Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile Glu Glu
 35 40 45
 Leu Pro Lys
 50

10004860-120701

<210> 964
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 964
 Thr Lys Lys Glu Asn Cys Arg Pro Ala Ser Leu Met Asn Ile Asp Thr
 1 5 10 15

Lys Ile Leu Asn Lys Ile Leu Met Asn Gln
 20 25

<210> 965
 <211> 214
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (120)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 965
 Met Cys Asn Leu Pro Ile Lys Val Val Cys Arg Ala Asn Ala Glu Tyr
 1 5 10 15

Met Ser Pro Ser Gly Lys Val Pro Xaa Xaa His Val Gly Asn Gln Val
 20 25 30

Val Ser Glu Leu Gly Pro Ile Val Gln Phe Val Lys Ala Lys Gly His
 35 40 45

10004550-120701

Ser Leu Ser Asp Gly Leu Glu Glu Val Gln Lys Ala Glu Met Lys Ala
 50 55 60
 Tyr Met Glu Leu Val Asn Asn Met Leu Leu Thr Ala Glu Leu Tyr Leu
 65 70 75 80
 Gln Trp Cys Asp Glu Ala Thr Val Gly Xaa Ile Thr His Xaa Arg Tyr
 85 90 95
 Gly Ser Pro Tyr Pro Trp Pro Leu Xaa His Ile Leu Ala Tyr Gln Lys
 100 105 110
 Gln Trp Glu Val Lys Arg Lys Xaa Lys Ala Ile Gly Trp Gly Lys Lys
 115 120 125
 Thr Leu Asp Gln Val Leu Glu Asp Val Asp Gln Cys Cys Gln Ala Leu
 130 135 140
 Ser Gln Arg Leu Gly Thr Gln Pro Tyr Phe Phe Asn Lys Gln Pro Thr
 145 150 155 160
 Glu Leu Asp Ala Leu Val Phe Gly His Leu Tyr Thr Ile Leu Thr Thr
 165 170 175
 Gln Leu Thr Asn Asp Glu Leu Ser Glu Lys Val Lys Asn Tyr Ser Asn
 180 185 190
 Leu Leu Ala Phe Cys Arg Arg Ile Glu Gln His Tyr Phe Glu Asp Arg
 195 200 205
 Gly Lys Gly Arg Leu Ser
 210

<210> 966
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 966
 Met Cys Asn Leu Pro Ile Lys Val Val Cys Arg Ala Asn Ala Glu Tyr
 1 5 10 15

Met Ser Pro Ser Gly Lys Val Pro Xaa Xaa His Val Gly Asn Gln Val
 20 25 30

Val Ser Glu Leu Gly Pro Ile Val Gln Phe Val Lys

10004550.120701

35

40

<210> 967
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 967
 Phe Val Lys Ala Lys Gly His Ser Leu Ser Asp Gly Leu Glu Glu Val
 1 5 10 15

Gln Lys Ala Glu Met Lys Ala Tyr Met Glu Leu Val Asn Asn Met Leu
 20 25 30

Leu Thr Ala Glu Leu Tyr Leu Gln Trp Cys Asp Glu
 35 40

<210> 968
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 968
 Leu Gln Trp Cys Asp Glu Ala Thr Val Gly Xaa Ile Thr His Xaa Arg
 1 5 10 15

Tyr Gly Ser Pro Tyr Pro Trp Pro Leu Xaa His Ile Leu Ala Tyr Gln
 20 25 30

Lys Gln Trp Glu Val Lys Arg Lys Xaa Lys Ala Ile Gly Trp Gly Lys
 35 40 45

Lys Thr Leu
 50

10004850.120701

Ser Gln Asp Gln Val Cys Cys Ile Gln Glu Thr His Leu Thr Gly Arg
 35 40 45

Asp Thr His Arg Leu Lys Ile Lys Gly Trp Arg Lys Ile Tyr Gln Ala
 50 55 60

Asn Gly Lys Gln Lys Lys
 65 70

<210> 972

<211> 28

<212> PRT

<213> Homo sapiens

<400> 972

Phe Thr Leu Asn Val Asn Gly Leu Asn Ala Pro Asn Glu Arg His Arg
 1 5 10 15

Leu Ala Asn Trp Ile Gln Ser Gln Asp Gln Val Cys
 20 25

<210> 973

<211> 17

<212> PRT

<213> Homo sapiens

<400> 973

Thr His Leu Thr Gly Arg Asp Thr His Arg Leu Lys Ile Lys Gly Trp
 1 5 10 15

Arg

<210> 974

<211> 14

<212> PRT

<213> Homo sapiens

<400> 974

Gly Trp Arg Lys Ile Tyr Gln Ala Asn Gly Lys Gln Lys Lys
 1 5 10

<210> 975

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 975

10004860.120701

Ile Tyr His Leu His Ser Trp Ile Phe Phe His Phe Lys Arg Ala Phe
 1 5 10 15

Cys Met Cys Phe Ile Thr Met Lys Val Ile His Ala His Cys Ser Lys
 20 25 30

Leu Arg Lys Cys Xaa Asn Ala Gln Ile Ser Val Phe Cys Thr Thr Leu
 35 40 45

Thr Ala Ser Tyr Pro Thr
 50

<210> 976

<211> 23

<212> PRT

<213> Homo sapiens

<400> 976

Ile Tyr His Leu His Ser Trp Ile Phe Phe His Phe Lys Arg Ala Phe
 1 5 10 15

Cys Met Cys Phe Ile Thr Met
 20

<210> 977

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 977

Lys Val Ile His Ala His Cys Ser Lys Leu Arg Lys Cys Xaa Asn Ala
 1 5 10 15

Gln Ile Ser Val Phe Cys Thr Thr Leu Thr Ala Ser Tyr Pro Thr
 20 25 30

<210> 978

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 978

Trp Asn Leu Leu Trp Tyr Phe Gln Arg Leu Arg Leu Pro Ser Ile Leu
 1 5 10 15

10004860-120701

Pro Gly Leu Val Leu Ala Ser Cys Asp Gly Pro Ser Xaa Ser Gln Ala
20 25 30

Pro Ser Pro Trp Leu Thr Pro Asp Pro Ala Ser Val Gln Val Arg Leu
35 40 45

Leu Trp Asp Val Leu Thr Pro Asp Pro Asn
50 55

<210> 979

<211> 54

<212> PRT

<213> Homo sapiens

<400> 979

Gln Arg Gly Ile Tyr Arg Glu Ile Leu Phe Leu Thr Met Ala Ala Leu
1 5 10 15

Gly Lys Asp His Val Asp Ile Val Ala Phe Asp Lys Lys Tyr Lys Ser
20 25 30

Ala Phe Asn Lys Leu Ala Ser Ser Met Gly Lys Glu Glu Leu Arg His
35 40 45

Arg Arg Ala Gln Met Pro
50

<210> 980

<211> 23

<212> PRT

<213> Homo sapiens

<400> 980

Trp Asn Leu Leu Trp Tyr Phe Gln Arg Leu Arg Leu Pro Ser Ile Leu
1 5 10 15

Pro Gly Leu Val Leu Ala Ser
20

<210> 981

<211> 191

<212> PRT

<213> Homo sapiens

<400> 981

Glu Asp Asp Gly Phe Asn Arg Ser Ile His Glu Val Ile Leu Lys Asn
1 5 10 15

Ile Thr Trp Tyr Ser Glu Arg Val Leu Thr Glu Ile Ser Leu Gly Ser
20 25 30

Leu Leu Ile Leu Val Val Ile Arg Thr Ile Gln Tyr Asn Met Thr Arg
35 40 45

Thr Arg Asp Lys Tyr Leu His Thr Asn Cys Leu Ala Ala Leu Ala Asn

10004660-120701

50 55 60

Met Ser Ala Gln Phe Arg Ser Leu His Gln Tyr Ala Ala Gln Arg Ile
65 70 75 80

Ile Ser Leu Phe Ser Leu Leu Ser Lys Lys His Asn Lys Val Leu Glu
85 90 95

Gln Ala Thr Gln Ser Leu Arg Gly Ser Leu Ser Ser Asn Asp Val Pro
100 105 110

Leu Pro Asp Tyr Ala Gln Asp Leu Asn Val Ile Glu Glu Val Ile Arg
115 120 125

Met Met Leu Glu Ile Ile Asn Ser Cys Leu Thr Asn Ser Leu His His
130 135 140

Asn Pro Asn Leu Val Tyr Ala Leu Leu Tyr Lys Arg Asp Leu Phe Glu
145 150 155 160

Gln Phe Arg Thr His Pro Ser Phe Gln Asp Ile Met Gln Asn Ile Asp
165 170 175

Leu Val Ile Ser Phe Phe Ser Ser Arg Leu Leu Gln Ala Gly Ser
180 185 190

<210> 982
<211> 38
<212> PRT
<213> Homo sapiens

<400> 982
Glu Asp Asp Gly Phe Asn Arg Ser Ile His Glu Val Ile Leu Lys Asn
1 5 10 15

Ile Thr Trp Tyr Ser Glu Arg Val Leu Thr Glu Ile Ser Leu Gly Ser
20 25 30

Leu Leu Ile Leu Val Val
35

<210> 983
<211> 53
<212> PRT
<213> Homo sapiens

<400> 983
Arg Thr Ile Gln Tyr Asn Met Thr Arg Thr Arg Asp Lys Tyr Leu His
1 5 10 15

Thr Asn Cys Leu Ala Ala Leu Ala Asn Met Ser Ala Gln Phe Arg Ser
20 25 30

Leu His Gln Tyr Ala Ala Gln Arg Ile Ile Ser Leu Phe Ser Leu Leu
35 40 45

10004360-120701

Ser Lys Lys His Asn
50

<210> 984
<211> 56
<212> PRT
<213> Homo sapiens

<400> 984
Ser Cys Leu Thr Asn Ser Leu His His Asn Pro Asn Leu Val Tyr Ala
1 5 10 15

Leu Leu Tyr Lys Arg Asp Leu Phe Glu Gln Phe Arg Thr His Pro Ser
20 25 30

Phe Gln Asp Ile Met Gln Asn Ile Asp Leu Val Ile Ser Phe Phe Ser
35 40 45

Ser Arg Leu Leu Gln Ala Gly Ser
50 55

<210> 985
<211> 31
<212> PRT
<213> Homo sapiens

<400> 985
Lys Lys His Asn Lys Val Leu Glu Gln Ala Thr Gln Ser Leu Arg Gly
1 5 10 15

Ser Leu Ser Ser Asn Asp Val Pro Leu Pro Asp Tyr Ala Gln Asp
20 25 30

<210> 986
<211> 15
<212> PRT
<213> Homo sapiens

<400> 986
Thr Ile Ser Asn Ser Ser Phe Ile Ser Gly Tyr Asn Ala Lys Tyr
1 5 10 15

<210> 987
<211> 31
<212> PRT
<213> Homo sapiens

<400> 987
Leu Lys Val Ala Ala Ser Trp Glu Leu Ser Cys Gln Trp Asn Gly Ser
1 5 10 15

Trp Lys Ser Leu Ser Lys Ala Ser Leu Arg Cys Pro Lys Thr Asp
20 25 30

10004860.120701

<210> 988
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 988
 Met Ala Asp Ile Gln Thr Glu Arg Ala Tyr Gln Lys Gln Pro Thr Ile
 1 5 10 15
 Phe Gln Asn Lys Lys Arg Val Leu Leu Gly Glu Thr Gly Lys Glu Lys
 20 25 30
 Leu Pro Arg Val Thr Asn Lys Asn Ile Gly Leu Gly Phe Lys Asp Thr
 35 40 45
 Pro Arg Arg Leu Leu Arg Gly Thr Tyr Ile Asp Lys Lys Cys Pro Phe
 50 55 60
 Thr Gly Asn Val Ser Ile Arg Gly Arg Ile Leu Ser Gly Val Val Thr
 65 70 75 80
 Gln Asp Glu Asp Ala Glu Asp His Cys His Pro Pro Arg Leu Ser Ala
 85 90 95
 Leu His Pro Gln Val Gln Pro Leu Arg Glu Ala Pro Gln Glu His Val
 100 105 110
 Cys Thr Pro Val Pro Leu Leu Gln Gly Arg Pro Asp Arg
 115 120 125

<210> 989
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 989
 Met Lys Met Gln Arg Thr Ile Val Ile Arg Arg Asp Tyr Leu His Tyr
 1 5 10 15
 Ile Arg Lys Tyr Asn Arg Phe Glu Lys Arg His Lys Asn Met Ser Val
 20 25 30
 His Leu Ser Pro Cys Phe Arg Asp Val Gln Ile Gly Asp Ile Val Thr
 35 40 45
 Val Gly Glu Cys Arg Pro Leu Ser Lys Thr Val Arg Phe Asn Val Leu
 50 55 60
 Lys Val Thr Lys Ala Ala Gly Thr Lys Lys Gln Phe Gln Lys Phe
 65 70 75

<210> 990
 <211> 30
 <212> PRT
 <213> Homo sapiens

10004350.120701

<210> 969
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 969
 Asp Gln Val Leu Glu Asp Val Asp Gln Cys Cys Gln Ala Leu Ser Gln
 1 5 10 15
 Arg Leu Gly Thr Gln Pro Tyr Phe Phe Asn Lys Gln Pro Thr Glu Leu
 20 25 30
 Asp Ala Leu Val Phe Gly His Leu Tyr Thr Ile
 35 40

<210> 970
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 970
 Leu Thr Thr Gln Leu Thr Asn Asp Glu Leu Ser Glu Lys Val Lys Asn
 1 5 10 15
 Tyr Ser Asn Leu Leu Ala Phe Cys Arg Arg Ile Glu Gln His Tyr Phe
 20 25 30
 Glu Asp Arg Gly Lys Gly Arg Leu Ser
 35 40

<210> 971
 <211> 70
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 971
 Met Xaa Xaa Xaa Asn Ser His Ile Thr Ile Phe Thr Leu Asn Val Asn
 1 5 10 15
 Gly Leu Asn Ala Pro Asn Glu Arg His Arg Leu Ala Asn Trp Ile Gln
 20 25 30

10004260-120701